

SEQUENCE LISTING

<110> Xu, Jiangchun
 Dillon, Davin C.
 Mitcham, Jennifer L.
 Harlocker, Susan L.
 Jiang, Yuqui
 Henderson, Robert A.
 Kalos, Michael D.
 Fanger, Gary R.
 Retter, Marc W.
 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
 Li, Samuel
 Wang, Aijun
 Skeiky, Yasir A.W.
 Hepler, William
 Hural, John
 McNeill, Patricia D.
 Houghton, Raymond L.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C24

<140> US

<141> 2001-02-09

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<170> FastSEQ for Windows Version 3.0

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<212> DNA

<213> Homo sapien

<220>

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<222> (1)...(814)

<223> n = A,T,C or G

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 <213> Homo sapien

<220>
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aagtttgcag	atgtatttgc	aaagaagacg	aaggcagagt	ggtgtcaa	ctttgacggc	240
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aacatacgag	cgggaacata	aagtgttaag	cctgggggtgc	ctaatagantg	agctaactcn	600
cattaattgc	gttgcgctca	ctgcccgcctt	tccagtcggg	aaaactgtcg	tgccactgen	660
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tgctcattg	atcctngcnc	cgggtcttcg	gctgcggnga	acggttcact	cctcaaaggc	780
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 <212> DNA
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gtcgtataga	aagggtgctcc	accatccaac	atgttctgtc	ctcgaggggg	ggcccgggtac	420
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gaatgggnaa atgggacccc cctgttaccc cgcattnaac ccccgcnngg tttngttggt 660
acccccacnt nnaccgctta cactttgcca gcgccttanc gcccgctccc tttcnccttt 720
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<212> DNA
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<220>
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tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaaag 180
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acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct 360
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ctanagcggc cgccaccgag gtgganctcc ancttttgtt cccttttagtg agggttaatt 480
gogcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca 540
attccacaca acatacganc cggaacataa aantgtaaac ctgggggtgcc taatgantga 600
ctaactcaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg 660
ccncttgcat tnatgaatcn gcccaacccc ggggaaaagc gtttgcgttt tgggcgctct 720
tccgcttctt cntcantta ntccctncnc tcgggtcatt cggtgcngc aaaccggttc 780
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<210> 5
<211> 834
<212> DNA
<213> Homo sapien

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<220>
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<223> n = A,T,C or G

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attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taattttatac 180
tgaagtaaat cttagccatgc ttttaaaaaa tgcttttaggt cactccaagc ttggcagtta 240
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taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420
cattcagttt tcaaagtagg agacaggttc tacagtatca ttttacagtt tccaacacat 480
tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta 540
tcaccaaccc cttagttata aaaaattttc aagttatatt agtcatataa cttgggtgtgc 600
ttattttaaa ttagtgctaa atggattaag tgaagacaac aatgggtccc taatgtgatt 660

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gatattggtc atttttaacca gcttctaaat ctnaactttc aggccttttga actggaacat 720
tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa 780
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<210> 6
<211> 818
<212> DNA
<213> Homo sapien

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<220>
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<223> n = A,T,C or G

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tgtaaagtga aatattagtt ggcggtatgaa gcagatagtg aggaaagttg agccaataat 180
gacgtgaagt ccgtggaagc ctgtggctac aaaaaatgtt gagccgtaga tgccgtcgga 240
aatggtgaag ggagactcga agtactctga ggctttagtg agggtaaaat agagaccag 300
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ggtaataaat aggattatcc cgtatcgaag gccttttttg acaggtgggt tgtggtggcc 600
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<211> 817
<212> DNA
<213> Homo sapien

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<220>
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<223> n = A,T,C or G

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ggtttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcggtag 180
aagtggtttg gtttagacgt ccgggaattg catctgtttt taagcctaata gtggggacag 240
ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcggga 300
gtactactcg attgtcaacg tcaaggagtc gcaggtcgcc tggttctagg aataatgggg 360
gaagtatgta ggaattgaag attaatccgc cgtagtcggt gttctcctag gttcaatacc 420
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tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan tttngttatt 600
gaatnttng gaaaagggct tacaggacta gaaaccaaata angaaaanta atnntaangg 660
cnttatcntn aaaggtmata accnctccta tnatcccacc caatngnatt cccacnncn 720
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817

<210> 8
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 <212> DNA
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 <222> (1)...(799)
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 tacgaacagc gcctgaaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg 240
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<210> 9
 <211> 801
 <212> DNA
 <213> Homo sapien

 <220>
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 <222> (1)...(801)
 <223> n = A,T,C or G

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 <212> DNA
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<220>
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 <223> n = A,T,C or G

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 <213> Homo sapien

<220>
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 <222> (1)...(772)
 <223> n = A,T,C or G

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 <212> DNA

<213> Homo sapien

<220>

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agtggcccn	aaaatcttca	aaaaggatgc	cccactnatt	gaccccccaa	atgccactg	600
ccaacagggg	ctgccccacn	cncnnaacga	tganccnatt	gnacaagatc	tncntggtct	660
tnatnaacnt	gaacctgcn	tngtggctcc	tgttcaggnc	cnnggcctga	cttctnaann	720
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<210> 13

<211> 729

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(729)

<223> n = A,T,C or G

<400> 13

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accatgcagt	gcttcagctt	cattaagacc	atgatgatcc	tcttcaattt	gctcatcttt	180
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ctcatcgag	ccggcgttgt	ggtcttagct	ctaggtttcc	tgggctgcta	tgggtgctaag	360
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tgttggtaat	gcctgccatc	aanaaaagat	tatgggttcc	caggaanact	tactcaagt	540
ggttgaacac	caccatgaaa	gggtcaagt	gctgtggctt	cnnccaacta	tacggatttt	600
gaagantcac	ctacttcaaa	gaaaanagt	cctttccccc	atttctgttg	caattgacaa	660
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<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(816)

<223> n = A,T,C or G

<400> 14

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ggcagggtcca	cgcagtgcc	tttgtcactg	gggaaatgga	tgcgctggag	ctcgtcaaag	180
ccactcgtgt	atctttcaca	ggcagcctcg	tccgacgcgt	cggggcagtt	gggggtgtct	240
tcacactcca	ggaaactgtc	natgcagcag	ccattgctgc	agcgggaactg	ggtgggctga	300
cangtgccag	agcacactgg	atggcgccct	tccatgnnan	gggccctgng	ggaaagtccc	360
tganccccc	anctgcctct	caaangcccc	accttgccaca	ccccgacagg	ctagaatgga	420
atcttcttcc	cgaaggtag	ttnttcttgt	tgcccaancc	anccccntaa	acaaactctt	480
gcanatctgc	tccngggggg	tctantacc	ancgtgggaa	aagaaccccc	ggcngcgaac	540
caancttggt	tggatncgaa	gcnataatct	ncntttctgc	ttgggtggaca	gcaccantna	600
ctgtnnanct	ttagnccntg	gtcctcnttg	gttgnncttg	aacctaatcn	ccnntcaact	660
gggacaaggt	aanngccnt	cctttnaatt	cccnancntn	ccccctggtt	tgggggtttt	720
cncnctccta	ccccgaaaan	nccgtgttcc	cccccaacta	ggggccnaaa	ccnnttnttc	780
cacaaccctn	ccccaccac	gggttcngnt	ggttng			816

<210> 15

<211> 783

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 15

ccaaggcctg	ggcaggcata	nacttgaagg	tacaaccccc	ggaacccctg	gtgctgaagg	60
atgtggaaaa	cacagattgg	cgcctactgc	ggggtgacac	ggatgtcagg	gtagagagga	120
aagacccaaa	ccaggtggaa	ctgtggggac	tcaaggaang	cacctacctg	ttccagctga	180
cagtgactag	ctcagaccac	ccagaggaca	cggccaacgt	cacagtcaact	gtgctgtcca	240
ccaagcagac	agaagactac	tgctcgcgat	ccaacaangt	gggtcgctgc	cggggctctt	300
ttccacgctg	gtactatgac	cccacggagc	agatctgcaa	gagtttcgtt	tatggaggct	360
gcttgggcaa	caagaacaac	taccttcggg	aagaagagtg	cattctancc	tgctcngggg	420
tgcaagggtg	gcctttgana	ngcanctctg	gggctcangc	gactttcccc	cagggcccct	480
ccatggaaag	gcgccatcca	ntgttctctg	gcacctgtoa	gcccacccag	ttccgctgca	540
ncaatggctg	ctgcatcnac	antttcctng	aattgtgaca	acacccccca	ntgcccccaa	600
ccctcccaac	aaagcttccc	tgtnnaaaaa	tacnccantt	ggettttnac	aaacnccccg	660
cncctccttt	ttccccnntn	aacaaagggc	notngenttt	gaactgcccn	aaccnnggaa	720
tctnccnngg	aaaaantncc	ccccctggtt	cctnnaancc	cctccncnaa	anctncccc	780
ccc						783

<210> 16

<211> 801

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(801)

<223> n = A,T,C or G

gccccaattc	cagctgcoac	accacccacg	gtgactgcat	tagttcggat	gtcatacaaa	60
agctgattga	agcaaccctc	tacttttttg	tcgtgagcct	tttgcttggt	gcaggtttca	120
ttggctgtgt	tggtgacgtt	gtcattgcaa	cagaatgggg	gaaaggcact	gttctctttg	180
aagtaggggtg	agtcctcaaa	atccgtatag	ttggtgaagc	cacagcactt	gagccctttc	240
atgggtgggtg	tccacacttg	agtgaagtct	tcctgggaac	cataatcttt	cttgatggca	300
ggcactacca	gcaacgtcag	gaagtgctca	gccattgtgg	tgtacaccaa	ggcgaccaca	360
gcagctgcaa	cctcagcaat	gaagatgagg	aggaggatga	agaagaacgt	cncgagggca	420
cacttgctct	ccgtcttagc	accatagcag	cccangaaac	caagagcaaa	gaccacaacg	480
ccngctgcga	atgaaagaaa	ntacccacgt	tgacaaactg	catggccact	ggacgacagt	540
tggcccgaan	atcttcagaa	aagggatgcc	ccatcgattg	aacaccana	tgcccactgc	600
cnacagggct	gcncncncn	gaaagaatga	gccattgaag	aaggatcntc	ntggtcttaa	660
tgaactgaaa	ccntgcatgg	tggcccctgt	tcagggtctc	tggcagtgaa	ttctganaaa	720
aaggaacnyc	ntnagcccc	ocaaangana	aaacaccccc	gggtgttgcc	ctgaattggc	780
ggccaaggan	ccctgccccn	g				801

<213> Homo sapien

<223> n = A, T, C or G

gtgagagcca	ggcgctccctc	tgcctgccca	ctcagtgcca	acaccgggga	gctgttttgt	60
cctttgtgga	ggctcagcag	ttccctcttt	cagaactcac	tgccaagagc	cctgaacagg	120
agccaccatg	cagtgtttca	gcttcattaa	gaccatgatg	atcctcttca	atttgctcat	180
ctttctgtgt	ggtgcagccc	tgttggcagt	gggcatctgg	gtgtcaatcg	atggggcatc	240
ctttctgaag	atcttcgggc	cactgtcgtc	cagtgccatg	cagtttgtca	acgtgggcta	300
cttcctcatc	gcagccggcg	ttgtgggtct	tgtcttgggt	ttcctgggct	gctatgggtgc	360
taagacggag	agcaagtgtg	ccctcgtgac	gttctttctc	atcctcctcc	tcattcttcac	420
tgctgaagtt	gcagctgctg	tggtcgcctt	ggtgtacacc	acaatggctg	aaccatttct	480
gacgttgctg	gtantgcctg	ccatcaanaa	agatttatgg	ttcccaggaa	aaattcactc	540
aantntggaa	caccnccatg	aaaagggtc	caattttctg	tggcttcccc	acattataccg	600
gaattttgaa	agantcnccc	tacttccaaa	aaaaaanatn	tgcctttnc	ccntttctgt	660
tgcaatgaaa	acntcccaan	acngccaatn	aaaacctgcc	cnnncaaaaa	ggntcncaaa	720
caaaaaaant	nnaagggttn					740

<213> Homo sapien

<223> n = A, T, C or G

ccgctggttg cgctggcca gngnagccac gaagcacgtc agcatacaca gcctcaatca 60

```
<210> 19
<211> 731
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G
```

```
<210> 20
<211> 754
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G
```

<400> 20						
tttttttttt	tttttttttt	taaaaacccc	ctccattnaa	tgnaaacctc	cgaaattgtc	60
caacccccctc	ntccaaatnn	ccntttccgg	gnggggggtc	caaacccean	ttanntttgg	120
annttaaat	aaatnttntt	tggngggnnn	ancenaatgt	nangaaagtt	naaccanta	180
tnancttnaa	tnctctgaaa	ccngtnqntt	ccaaaaaatn	ttaaccctta	antccctcgg	240

```

aatngtttna  nggaaaaccc  aanttctcnt  aaggttgttt  gaaggntnaa  tnaaaaanccc  300
nnccaattgt  ttttngccac  gcctgaatta  attggnnttc  gntgttttcc  nttaaaanaa  360
ggnnancccc  ggttantnaa  tcccccnnc  cccaattata  ccganttttt  ttngaattgg  420
gancccnccg  gaattaacgg  ggnnntccc  tnttgggggg  cnggnncccc  ccccntcggg  480
ggttngggnc  aggncnnaat  tgtttaaggg  tccgaaaaat  ccctccnaga  aaaaaanctc  540
ccaggntgag  nntnggggtt  ncccccccc  canggccctc  ctcgnanagt  tggggtttgg  600
ggggcctggg  atttntttc  cctnttncc  tcccccccc  ccnggganag  aggttngngt  660
tttgntcnnc  ggcccnccn  aaganctttn  ccganttnan  ttaaatccnt  gcctnngcga  720
agtccttgn  agggntaaan  ggccccctnn  cggg  754

```

```

<210> 21
<211> 755
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

```

```

<400> 21
atcancccat  gaccccnac  nngggaccnc  tcanccggnc  nnncnaccnc  cggccnatca  60
nngtnagnnc  actncnntn  natcacnccc  cncnactac  gcccnananc  cnacgcncta  120
nncanatncc  actganngcg  cganngngan  ngagaaanct  nataccanag  ncaccanacn  180
ccagctgtcc  nanaangcct  nnnatacnng  nnnatccaat  ntgnancctc  cnaagtattn  240
nncnncanat  gattttcctn  anccgattac  cntncccc  tancecctcc  cccccaacna  300
cgaaggcnct  ggncncaagg  nngcgncccc  ccgctagntc  ccnncncaag  cncnnccta  360
aactcanccn  nattaacncc  ttcttgagta  tcactccccg  aatctcacc  tactcaactc  420
aaaaanatch  gatacaaaat  aatncaagcc  tgnttatnac  actntgactg  ggtctctatt  480
ttagnnggtc  ntnaancntc  ctaatacttc  cagctcncct  tcnccaattt  ccnaanggct  540
ctttcngaca  gcatnttttg  gttcccnntt  gggttcttan  ngaattgcc  ttctntgaac  600
gggctentct  tttccttcgg  ttanccctgg  ttcncccggc  cagttattat  ttcccntttt  660
aaattcntnc  cntttanttt  tggcnttcna  aacccccggc  cttgaaaacg  gccccctggt  720
aaaaggttgt  tttganaaaa  tttttgtttt  gttcc  754

```

```

<210> 22
<211> 849
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

```

```

<400> 22
tttttttttt  tttttangtg  tngtcgtgca  ggtagaggct  tactacaant  gtgaanacgt  60
acgctnggan  taangcgacc  cgantttctag  ganncnccct  aaaatcanac  tgtgaagatn  120
atcctgnnna  cggaanggtc  accggnngat  nntgctaggg  tgncnctcc  cannncttn  180
cataactcng  nggccctgcc  caccaccttc  ggcggcccng  ngncggggcc  cgggtcattn  240
gnnttaaccn  cactnngcna  ncggtttccn  nccccnncng  accnnggcga  tccggggtn  300
tctgtcttcc  cctgnagncn  anaaantggg  ccnccgnccc  ctttaccct  nnacaagcca  360
cngccttcta  nccnngccc  cccctccant  nngggggact  gccnanngct  ccgttntctg  420
nnaccccnnn  gggtnccctg  gttgtcgant  cnaccgnang  ccanggatc  cnaaggaagg  480

```

```
<210> 23
<211> 872
<212> DNA
<213> Homo sapien
```

<400>	23								
aacta	tacttgcgtc	gnaactcgtgc	gcctcgcgtnc	tcttttcctc	cgcaaccatg				60
cnanc	ccgattnggc	ngatatcnan	aagntcganc	agtccaaact	gantaacaca				120
ncnan	aganaaatcc	netgccttcc	anagtanacn	attgaacnng	agaaccangc				180
aatcg	taatnaggcg	tgcgcgcgcca	atntgtcncc	gtttatntn	ccagcntenc				240
nacc	tacntcttcn	nagctgtcnn	acccctngtn	cgnaccccc	naggtcgggga				300
tttnn	nntgaccgng	cnnccctcc	ccccntccat	nacgancnc	ccgcaccacc				360
cncgc	nccccgnnct	cttcgcncnc	ctgtcctntn	ccctgtngc	ctggenengn				420
attga	ccctcgcenn	ctnonngaaa	ncgnanacgt	ccgggttggn	annancgctg				480
nnngc	tctgcncgc	gttcccttcn	ncnncctcca	ccatcttct	tacngggtct				540
ccntc	tcnnncacnc	cctgggaagc	tntcctntgc	cccccttnac	tccccccctt				600
tgnc	cgnccccacc	ntcatttnga	nacgntcttc	acaannnct	ggntnnctcc				660
ngncn	gtcanccnag	ggaagtgngg	ggnnccnttc	nttgacgttg	ngngngangtc				720
antcc	tcnccntcan	cncataccct	cgggcgnnct	ctctgttnc	aacttancaa				780
ccccg	ngngcncntc	tcagcctcnc	ccnccccnct	ctctgcantg	tnctctgctc				840
mntac	gantnttcgn	cncctctttt	cc						872

```
<210> 24
<211> 815
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G
```

<400> 24						
gcattgcaagc	ttgagtattc	tatatngtca	cctaaatanc	ttggcantaat	catgggtenta	60
nctgncttcc	tgtgtcaaat	gtatacnaan	tanatatgaa	tctnatntga	caagannnga	120
tctntcatta	gtaacaantg	tnntgtccat	cctgtongan	canattccca	tnnattncgn	180
cgcattcncn	gncantatn	taatngggaa	ntcnntnnn	ncaccnncat	ctatcntncc	240
gncccctgac	tggngagat	ggatnanttc	tnntntgacc	nacatgttca	tcttggattn	300
aanancccc	cgcngnccac	cggttngnng	cnagccnntc	ccaagacctc	ctgtggaggt	360
aacctgctc	aganncatca	aacntgggaa	accgcnncc	angtnnaagt	ngnnncanan	420
gatcccgcc	aggnntnacc	atcccttenc	agcgcgccct	ttngtgcctt	anagnngnagc	480

gtgtccnanc	cnetcaacat	ganacgcgcc	agnccanccg	caattnggca	caatgtcgnc	540
gaaccccccta	ggggganntna	tncaaanccc	caggattgtc	cncncangaa	atcccnanc	600
ccnccctac	ccncttttg	gacngtgacc	aantcccga	gtncagtc	ggcngnctc	660
ccccaccgt	nncntggg	gggtgaanct	cngnntcanc	cngncgaggn	ntcgnaagga	720
accggncctn	ggncgaann	ancnntcnga	agngccnct	cgtataaccc	cccctcncca	780
nccnacngnt	agntcccc	cngggtnccg	aangg			815

<210> 25
 <211> 775
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(775)
 <223> n = A,T,C or G

<400> 25						
cagagatgtc	tgcgtccgtg	gccttagctg	tgtctgcgct	actctctctt	tctggcctgg	60
aggctatcca	gcgtactcca	aagattcagg	tttactcaag	tcattccagca	gagaatggaa	120
agtcaaattt	cctgaattgc	tatgtgtctg	ggtttcatcc	atccgacatt	gaanttact	180
tactgaagaa	tgganagaga	attgaaaaag	tggagcattc	agacttgtct	ttcagcaagg	240
actggtcttt	ctatctctng	tactacactg	aattcacccc	caactgaaaa	gatgagtatg	300
cctgccgtgt	gaaccatgtg	actttgtcac	agccccagat	agtttaagtgg	gatcgagaca	360
tgtaagcagn	cnncatggaa	gtttgaagat	gccgcatttg	gattggatga	attccaaatt	420
ctgcttgctt	gcnttttaat	antgatatgc	ntatacaccc	taccctttat	gncccccatt	480
tgtaggggtt	acatnantgt	tcnctnngga	catgatcttc	ctttataant	ccnccnttcg	540
aattgcccgt	cncccngttn	ngaagtgttc	cnnaaccaag	gttggtctcc	ccaggtcncc	600
tcttacggaa	gggcctgggc	cnccttncaa	ggttggggga	accnaaaatt	tcncttntgc	660
cncccncca	cnntcttng	nncncanttt	ggaacccttc	cnattcccct	tggcctcnna	720
nccttnncta	anaaaacttn	aaancgtngc	naaanntttt	acttcccccc	ttacc	775

<210> 26
 <211> 820
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(820)
 <223> n = A,T,C or G

<400> 26						
anattantac	agtgtaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat	60
cccanagata	ncttatanca	acagtgtctt	gaccaagagc	tgtctgggcac	atttcctgca	120
gaaaagggtg	cgggtcccc	cactctcct	ctcccagagc	catcccagag	gggtgagtag	180
ccatcangcc	ttcgggtgga	gggagtcang	gaaacaacan	accacagagc	anacagacca	240
ntgatgacca	tgggcgggag	cgagcctctt	ccctgnaccg	gggtggcana	nganagccta	300
nctgaggggt	cacactataa	acgttaacga	ccnagatnan	cacctgtctc	aagtgcaccc	360
ttcctacctg	acnaccagng	accnnnaact	gcngcctggg	gacagcctg	ggancagcta	420
acnagcaact	cacctgcccc	cccatggccg	tnccgntccc	tggctcctgnc	aagggaagct	480
ccctgttgga	attncgggga	naccaaggga	nccccctcct	ccanctgtga	aggaaaaann	540
gatggaattt	tncccttccg	gccnntcccc	tcttccttta	cacgccccct	nntactcttc	600
tcctctnttt	ntcctgncnc	acttttnacc	ccnnnatttc	ccttnattga	tcggannctn	660

```
<210> 27
<211> 818
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G
```

```
<210> 28
<211> 731
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G
```

<400> 28						
aggaagggcg	gagggatatt	gtanggggatt	gagggatagg	agnataangg	gggaggtgtg	60
tccaacatg	anggtgnngt	tctcttttga	angagggttg	ngtttttann	ccnggtgggt	120
gattnaaccc	cattgtatgg	agnnaaaggn	tttnagggat	ttttcggtc	ttatcagtat	180
ntanattcct	gtnaatcgga	aaatnatntt	tcnncnggaa	aatnttgctc	ccatccgnaa	240
attnctcccg	ggtagtgc	nttngggggg	cngccangtt	tccaaggctg	ctanaatcgt	300
actaaagntt	naagtgggan	tncaaataaa	aacctnncac	agagnatccn	tacccgactg	360
tnnnnttncct	tcgccctntg	actctgcnng	agcccaatac	ccnngngnat	gtcncccnng	420
nnngcgnenc	tgaaannnnc	tcngggctnn	gancatcang	gggtttcgca	tcaaaagcnn	480
cgtttcnca	naaggcaact	tngectc	caaccnctng	ccctcncca	tttngccgtc	540
nggttcnct	acgctnnntg	cncctnnntn	ganattttnc	ccgcctnngg	naancctcct	600
gnaatgggta	ggngcctntc	ttttnacnnc	gnggtntact	aatcnctnc	acgcntnctt	660
ttcncacccc	cccccttttt	caatcccanc	ggcnaatggg	gtctccccnn	cgaagggggg	720
nnnccannnc	c					731

<400> 29

```
<210> 30
<211> 787
<212> DNA
<213> Homo sapien
```

<400> 30

<210> 31

```
<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G
```

```
<210> 32
<211> 789
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G
```

<210>	33
<211>	793
<212>	DNA

$\langle 220 \rangle$

<221> misc_feature
 <222> (1)...(834)
 <223> n = A,T,C or G

<400> 35

ggggatctct	anatcnacct	gnatgcatgg	ttgtcggtgt	ggtcgctgtc	gatgaanatg	60
aacaggatct	tgcccttgaa	gctctcggct	gctgtnttta	agttgctcag	tctgccgtca	120
tagtcagaca	cnctcttggg	caaaaaacan	caggatntga	gtcttgattt	cacctccaat	180
aatcttcngg	gctgtctgct	cggtgaaactc	gatgaacnang	ggcagctggg	tgtgtntgat	240
aaantccanc	angttctcct	tggtgacctc	cccttcaaag	ttgttcggc	cttcatcaaa	300
cttctnnaan	angannancc	cancctttgtc	gagctggnat	ttgganaaca	cgtcactggt	360
ggaaactgat	cccaaattgg	atgtcatcca	tcgcctctgc	tgcctgcaaa	aaacttgctt	420
ggcncaaact	cgactcccn	tccttgaaag	aagccnatca	cacccccctc	cctggactcc	480
nncaangact	ctnccgctnc	cccctccnng	cagggttggt	ggcannccgg	gcccntgcgc	540
ttcttcagcc	agttcacnat	nttcacagc	ccctctgcca	gctgttntat	tccttggggg	600
tgaaanccgtc	tctcccttcc	tgaannaact	ttgaccgtng	gaatagccgc	gcntcnccnt	660
acntnctggg	ccgggttcaa	antccctccn	ttgnccntcn	cctcgggcca	ttctggattt	720
ncnaactttt	ttccttcccc	cnccccnccg	ngtttggnnt	tttcatnggg	ccccaaactct	780
gctnttggcc	antccctctg	gggcntntan	cnccccctnt	ggtcccntng	ggcc	834

<210> 36
 <211> 814
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(814)
 <223> n = A,T,C or G

<400> 36

cggnccgttt	ccngccgcgc	cccgtttcca	tgaacnaaggc	tcoccttcang	ttaaatacn	60
cctagnaaac	attaatgggt	tgctctacta	atacatcata	cnaaccagta	agcctgcca	120
naacgccaac	tcaggccatt	cctaccaaag	gaagaaaaggc	tggtctctcc	acccctgtga	180
ggaaaggcct	gccttgtaag	acaccacaat	ncggctgaat	ctnaagtctt	gtgttttact	240
aatggaaaaa	aaaaataaac	aanaggtttt	gttctcatgg	ctgcccaccg	cagcctggca	300
ctaaaacanc	ccagcgctca	cttctgcttg	ganaaatatt	ctttgctctt	ttggacatca	360
ggcttgatgg	tatcactgcc	acntttccac	ccagctgggc	ncccttcccc	catntttgtc	420
antganctgg	aaggcctgaa	ncttagtctc	caaaaagtctc	ngcccacaag	accggccacc	480
aggggangtc	ntttncagtg	gatctgccaa	anantaccn	tatcatcnnt	gaataaaaag	540
gcccctgaac	ganatgcttc	cancancctt	taagacccat	aatcctngaa	ccatgggtgcc	600
cttccgggtc	gatccnaaag	gaatgttcc	gggtcccant	ccctcctttg	ttnccttacgt	660
tgtnttggac	ccntgctngn	atnaccnaan	tganatcccc	ngaagcacc	tnccctggc	720
atttganttt	cntaaattct	ctgccctacn	nctgaaagca	cnattccctn	ggcnccnaan	780
ggngaactca	agaaggtctn	ngaaaaacca	cncn			814

<210> 37
 <211> 760
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(760)

ttttttttttt tttttctttg ctcacattta atttttattt tgattttttt taatgctgca 60

<213> Homo sapien

<400> 42

acttactgaa	tttagttctg	tgctcttctt	tatttagtgt	tgtatcataa	atactttgat	60
gtttcaaaca	ttctaaataa	ataattttca	gtggcttcat	a		101

<210> 43

<211> 305

<212> DNA

<213> Homo sapien

<400> 43

acatctttgt	tacagtctaa	gatgtgttct	taaatcacca	ttccttctctg	gtcctcaccc	60
tccaggggtg	tctcacactg	taattagagc	tattgaggag	tctttacagc	aaattaagat	120
tcagatgcct	tgctaagtct	agagttctag	agttatgttt	cagaaagtct	aagaaaccca	180
cctcttgaga	ggtcagtaaa	gaggacttaa	tatttcatat	ctacaaaatg	accacaggat	240
tgatatacaga	acgagagtta	tcctggataa	ctcagagctg	agtacctgcc	cgggggcccgc	300
tcgaa						305

<210> 44

<211> 852

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(852)

<223> n = A,T,C or G

<400> 44

acataaatat	cagagaaaag	tagtctttga	aatattttacg	tccaggagtt	ctttgtttct	60
gattattttg	tgtgtgtttt	ggtttgtgtc	caaagtattg	gcagcttcag	ttttcatttt	120
ctctccatcc	tcgggcattc	ttcccaaatt	tatataccag	tcttcgtcca	tccacacgct	180
ccagaatttc	tcctttgtag	taatatctca	tagctcggt	gagcttttca	taggtcatgc	240
tgctgttggt	cttcttttta	ccccatagct	gagccactgc	ctctgatttc	aagaacctga	300
agacgccctc	agatcgggtc	tcccatttta	ttaatcctgg	gttcttgtct	gggttcaaga	360
ggatgtcgcg	gatgaattcc	cataagttag	tccctctcgg	gttgtgtctt	ttggtgtggc	420
acttggcagg	gggttcttgc	tcctttttca	tatcagggtga	ctctgcaaca	ggaaggtgac	480
tggtgggtgt	catggagatc	tgagcccggc	agaaagtttt	gctgtccaac	aaatctactg	540
tgctaccata	gttgggtgtc	tataaatagt	tctngtcttt	ccagggtgtc	atgatggaag	600
gctcagtttg	ttcagtcttg	acaatgacat	tgtgtgtgga	ctggaacagg	tcactactgc	660
actggccgtt	ccacttcaga	tgctgcaagt	tgctgtagag	gagntgcccc	gccgtccctg	720
cgcgccgggt	gaactcctgc	aaactcatgc	tgcaaagggtg	ctcgccgttg	atgtcgaact	780
cntggaaagg	gatacaattg	gcacccagct	ggttggtgtc	caggaggtga	tgagagccact	840
cccacacctg	gt					852

<210> 45

<211> 234

<212> DNA

<213> Homo sapien

<400> 45

acaacagacc	cttgctcgct	aacgacctca	tgctcatcaa	gttgagcgaa	tccgtgtccg	60
agtctgacac	catccggagc	atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	120

```
gcctcgtttc tggctggggt ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg 180
tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgaccgc ctgt 234
```

```
<210> 46
<211> 590
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(590)
<223> n = A,T,C or G
```

```
<400> 46
acttttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atggtgtgta 60
atttgatagc aatatttttg agattacaga gtttttagtaa ttaccaatta cacagttaaa 120
aagaagataa tatattccaa gcanatacaa aatatctaata gaaagatcaa ggcaggaaaa 180
tgantataac taattgacaa tggaaaatca attttaatgt gaattgcaca ttatccttta 240
aaagotttca aaanaaanaa ttattgcagt ctanttaatt caaacagtgt taaatgggat 300
caggataaan aactgaaggg canaaagaat taattttcac ttcattgtaac ncacccanat 360
ttacaatggc ttaaattgcan ggaaaaagca gtggaagtag ggaagtantc aaggtccttc 420
tggtctctaa tctgccttac tctttgggtg tggctttgat cctctggaga cagctgccag 480
ggctcctgtt atatccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct 540
gccttccttt gaggagactt catctcactg gccaacactc agtcacatgt 590
```

```
<210> 47
<211> 774
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G
```

```
<400> 47
acaagggggc ataatgaagg agtggggana gatttttaaag aaggaaaaaa aacgaggccc 60
tgaacagaat ttctctgnac aacggggcct caaaataatt ttcttgggga ggttcaagac 120
gcttcactgc ttgaaactta aatggatgtg ggacanaatt ttctgtaatg accctgaggg 180
cattacagac gggactctg gagggaaggat aaacagaaaag gggacaaaag ctaatcccaa 240
aacatcaaag aaaggaagggt ggcgtcatac ctcccagcct acacagttct ccagggtctt 300
cctcatccct ggaggacgac agtggaggaa caactgacca tgtccccagg ctctgtgtg 360
ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgctgat cctgcgtggc 420
ccacactcct tgaacacaca tcccaggtt atattccttg acatggctga acctcctatt 480
cctacttcog agatgccttg ctccctgcag cctgtcaaaa tccactcac cctccaaacc 540
acggcatggg aagcctttct gacttgctg attactccag catcttgga caatccctga 600
ttccccactc cttagaggca agatagggtg gttaagagta gggctggacc acttgagacc 660
aggctgctgg cttcaaattt tggctcattt acgagctatg ggaccttggg caagtnatct 720
tcacttctat gggentcatt ttgttctacc tgcaaaatgg gggataataa tagt 774
```

```
<210> 48
<211> 124
<212> DNA
<213> Homo sapien
```

<220>
 <221> misc_feature
 <222> (1)...(124)
 <223> n = A,T,C or G

<400> 48
 canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt 60
 ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact 120
 tgggt 124

<210> 49
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 49
 gccgatgcta ctattttatt gcaggagggtg ggggtgtttt tattattctc tcaacagctt 60
 tgtggctaca ggtgggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120
 ttagggcacc catatcccaa gcantgt 147

<210> 50
 <211> 107
 <212> DNA
 <213> Homo sapien

<400> 50
 acattaaatt aataaaaagga ctgttggggt tctgctaaaa cacatggctt gatataattgc 60
 atggttttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51
 <211> 204
 <212> DNA
 <213> Homo sapien

<400> 51
 gtocntagaa gtctagggga cacacgactc tggggtcacg gggccgacac acttgcacgg 60
 cggaaggaa aggcagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag 120
 gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgccc cacttggcca 180
 cctccctttt gggaccagca atgt 204

<210> 52
 <211> 491
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(491)

<400> 52

<210> 53

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

<222> (1) ... (484)

<223> n = A, T, C or G

<400> 53

acataatttta	gcagggttaa	ttaccataag	atgctatttta	ttaanaggtn	tatgatctga	60
gtattaacag	ttgctgaagt	ttggtatttt	tatgcagcat	tttctttttg	ctttgataac	120
actacagaac	ccctaaggac	actgaaaatt	agtaagtaaa	gttcagaaac	attagctgct	180
caatcaaadc	tctacataac	actatagtaa	ttaaaacgtt	aaaaaaaaagt	gttgaaatct	240
gcactagtat	anaccgctcc	tgtcaggata	anactgcttt	ggaacagaaa	gggaaaaanc	300
agctttgant	ttctttgtgc	tgatangagg	aaaggctgaa	ttaccttggt	gcctctccct	360
aatgattggc	aggtcnggta	aatnccaaaa	catattccaa	ctcaacactt	cttttccnccg	420
tancttgant	ctgtgtattc	caggancagg	cggatggaat	gggccagccc	ncggatgttc	480
cant						484

<210> 54

<211> 151

<212> DNA

<213> Homo sapien

<400> 54

actaaacctc	gtgcttgta	actccataca	gaaaacgggtg	ccatccctga	acacggctgg	60
ccactgggta	tactgtgtgac	aaccgcaaca	acaaaaacac	aatccttg	cactggctag	120
tctatgtcct	ctcaagtgcc	tttttgttt	t			151

<210> 55

<211> 91

<212> DNA

<213> Homo sapien

<400> 55

acctggccttg	tctccgggtg	gttcccggcg	ccccccacgg	tccccagaac	ggacactttc	60
gccctccagt	ggatactcga	gccaaagtgg	t			91

<210> 56

<211> 133
 <212> DNA
 <213> Homo sapien

<400> 56
 ggcggatgtg cggttggttat atacaaatat gtcattttat gtaagggact tgagtatact 60
 tggatttttg gtatctgtgg gttgggggga cgggccagga accaatacc catggatacc 120
 aagggacaac tgt 133

<210> 57
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 57
 actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtggcgc 60
 gactgggagc tgagcccttc cctttgcgcc tgcctcagag gattgttgcc gacntgcana 120
 tctcantggg ctggatncat gcagggt 147

<210> 58
 <211> 198
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(198)
 <223> n = A,T,C or G

<400> 58
 acagggatat aggtttnaag ttattgtinat tgtaaaatac attgaatttt ctgtatactc 60
 tgattacata catttatect ttaaaaaaga tgtaaactctt aatttttatg ccatctatta 120
 atttaccat gagttacett gtaaatgaga agtcatgata gcactgaatt ttaactagtt 180
 ttgacttcta agtttggt 198

<210> 59
 <211> 330
 <212> DNA
 <213> Homo sapien

<400> 59
 acaacaaatg ggttgtgagg aagtcttatc agcaaaaactg gtgatggcta ctgaaaagat 60
 ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaactc actcaatttt 120
 cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa 180
 tacagtcaat aaatgacaaa gccagggcct acaggtgggt tccagacttt ccagaccag 240
 cagaaggaat ctattttatc acatggatct ccgctctgtgc tcaaaatacc taatgatatt 300
 tttcgtcttt attggacttc tttgaagagt 330

<210> 60

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<400> 60
accgtgggtg ctttctacat tcttgacggc tctttcacca acatctgggt ctacttcggc 60
gtcgtgggct ctttctcttt catctctatc cagctgggtg tgctcatcga ctttgccgac 120
tcttggaaac agcggtggtt gggcaaggcc gaggagtgcg attcccgtgc ctggt 175

```

```

<400> 61
accccacttt tctcctgtg agcagttctgg acttctcact gctacatgat gaggggtgagt 60
ggttgttgct cttcaacagt atcctcccct ttccggatct gctgagccgg acagcagtgct 120
tggaactgcac agccccgggg ctccacattg ctgt 154

```

<400> 62
cgctcgagcc ctatagtga tgcgtattaga 30

<400> 63
acaagtcatt tcagcaccct ttgctcttca aaactgacca tcttttatat ttaatgcttc 60
ctgtatgaat aaaaatgggt atgtcaagt 89

```

<400> 64
accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag      60
aatcagtqca tccaggattg gtccttggat ctgggggt                               97

```

```
<220>
<221> misc_feature
<222> (1)...(377)
<223> n = A,T,C or G
```

<400> 65
 acaacaanaa ntccctttctt taggccactg atggaaacct ggaaccccct tttgatggca 60
 gcatggcgctc ctaggccttg acacagcggc tggggtttgg gctntcccaa accgcacacc 120
 ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcagggg 180
 tcggtcataa natgaaatcc caanggggac agaggtcagt agaggaagct caatgagaaa 240
 ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaacccg 300
 tgggggtgaa ctacccccan gaggaatcat gcctgggcga tgcaanggtg ccaacaggag 360
 gggcgggagg agcatgt 377

<210> 66
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 66
 acgcctttcc ctcagaattc agggaagaga ctgtgcctg ccttcctccg ttgttgctg 60
 agaaccgctg tgcccttcc caccatatcc accctcgctc catctttgaa ctcaaacacg 120
 aggaactaac tgcacctgg tctctcccc agtccccagt tcacctcca tccctcacct 180
 tctccactc taagggatat caaactgcc cagcacaggg gccctgaatt tatgtggttt 240
 ttatatattt ttttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac 300
 tgttt 305

<210> 67
 <211> 385
 <212> DNA
 <213> Homo sapien

<400> 67
 actacacaca ctcacttgc ccttgtgaga cactttgtcc cagcacttta ggaatgctga 60
 ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcaggc ctgagagttc 120
 cctttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc 180
 tgtgctgtgc tggagattca cttttgagag agttctcctc tgagacctga tcttttagagg 240
 ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg 300
 cctctcccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgccatac 360
 catagtttct gtgctagtgg accgt 385

<210> 68
 <211> 73
 <212> DNA
 <213> Homo sapien

<400> 68
 acttaaccag atatattttt accccagatg gggatattct ttgtaaaaaa tgaaaataaa 60
 gtttttttaa tgg 73

<210> 69
 <211> 536
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(536)

<223> n = A,T,C or G

<400> 69

actagtccag	tgtggtggaa	ttccattgtg	ttgggggctc	tcaccctcct	ctcctgcagc	60
tccagctttg	tgctctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tggccctggc	ctggagcccc	aaggaggagg	ataggataat	180
cccggtggc	atctataacg	cagacctcaa	tgatgagtgg	gtacagcgtg	cccttcactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgctgcgggt	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagaggtggg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttggacacc	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagtccct	ggggagaaca	480
gaangtcct	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

<210> 70

<211> 477

<212> DNA

<213> Homo sapien

<400> 70

atgacccta	acaggggcc	tctcagccct	cctaattgacc	tccggcctag	ccatgtgatt	60
tcacttccac	tccataacgc	tcctcatact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaag	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatacg	ggataatcct	atctattacc	tcagaagttt	ttttcttcgc	240
agggattttt	ctgagccttt	taccactcca	gcctagcccc	taccccccaa	ctaggagggc	300
actggcccc	aacaggcatc	accccgctaa	atcccttaga	agtcccactc	ctaaacacat	360
ccgtattact	cgcatcagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
accgaaacca	aattattcaa	agcactgctt	attacaattt	tactgggtct	ctattttt	477

<210> 71

<211> 533

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(533)

<223> n = A,T,C or G

<400> 71

agagctatag	gtacagtgtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggtattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gattggttta	120
tgtgatttta	gtggattttt	tggcaccctt	atatatgttt	tccaaacttt	cagcagtgat	180
attattttcca	taacttaaaa	agtgagtttg	aaaaagaaaa	tctccagcaa	gcattctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttta	aaaagctgtc	300
aaatagggtg	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttogtaatt	ttggagtang	aggttccctc	ctcaattttg	tattttttaa	aagtacatgg	480
taaaaaaaaa	aattcacac	agtatataag	gctgtaaaat	gaagaattct	gcc	533

<210> 72

<211> 511

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G

<400> 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcgtgta	60
aaatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattgggtgc	tgganatcgc	cgtggctatt	cctcattgtt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

<210> 73
 <211> 499
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(499)
 <223> n = A,T,C or G

<400> 73

cagtgccagc	actggtgcc	gtaccagtac	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtggc	ttcagtgtctg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttgggt	ggagctgggtg	ccagcaccag	tggcagctct	gggtgcctgtg	gtttctccta	180
caagtgaagt	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aattctatttg	ccattttctga	aaaaaaaaaa	aaaaaaagg	cggccgctcg	360
antctagagg	gcccgttttaa	acccgctgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgccctcc	cccgntgcct	tccttgacct	tggaaagtgc	cactcccact	480
gtcctttcct	aantaaaat					499

<210> 74
 <211> 537
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(537)
 <223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaattt	ggattcagcc	gcgaagagat	60
ttatcagctt	aactcagata	aaatcattga	aagtaataag	gtaaaagcta	gtctctaact	120
tocaggccca	cggctcaagt	gaatttgaat	actgcattta	cagtgtagag	taacacataa	180
cattgtatgc	atggaaacat	ggaggaacag	tattacagtg	tcctaccact	ctaatcaaga	240
aaagaattac	agactctgat	tctacagtga	tgattgaatt	ctaaaaatgg	taatcattag	300
ggcttttgat	ttataanact	ttgggtactt	atactaaatt	atggtagtta	tactgccttc	360

```
<210> 75
<211> 467
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G
```

```
<210> 76
<211> 400
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G
```

```
<210> 77
<211> 248
<212> DNA
<213> Homo sapien
```

<400>	77						
ctggagtgcc	ttggtgtttc	aagccoctgc	aggaagcaga	atgcaccttc	tgaggcacct		60
ccagctgcc	cggcgggga	tgcgaggctc	ggagcaccct	tgcccggtg	tgattgctgc		120
caggcactgt	tcatctcagc	ttttctgtcc	ctttgctccc	ggcaagcgt	tctgctgaaa		180
gttcatact	ggagcctgat	gtcttaacga	ataaaggctc	catgctccac	ccgaaaaaaa		240
aaaaaaaaa							248

acagggattt	gagatgctaa	ggccccagag	atcgtttgat	ccaacccctct	tattttcaga	60
ggggaaaaat	gggcctagaa	gttacagagc	atctagctgg	tgcgctggca	cccctggcct	120
cacacagact	cccgagtgc	tgggactaca	ggcacacagt	cactgaagca	ggccctgttt	180
gcaattcacg	ttgccacctc	caacttaaac	attcttcata	tgtgatgtcc	ttagtcaacta	240
agggttaaact	ttccaccca	gaaaaggcaa	cttagataaa	atcttagagt	actttcatac	300
tcttctaagt	cctcttcag	cctcactttg	agtcctcctt	gggggttgat	aggaantntc	360
tcttggtttt	ctcaataaaa	tctctatcca	tctcatgttt	aatttggtac	gcntaaaaaat	420
gctgaaaaaaa	ttaaaatgtt	ctggtttcnc	tttaaaaaaaa	aaaaaaaaaaa	aaaaaa	476

<210> 81
 <211> 232
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G

<400> 81
 tttttttttg tatgccntcn ctgtggngtt attgttgctg ccaccctgga ggagcccagt 60
 ttctttctgta tctttctttt ctggggggtc ttcttggtc tgcccctcca ttcccagcct 120
 ctcaccccca tcttgcaact ttgctagggg tggaggcgct ttcttggtg cccctcagag 180
 actcagtcag cggaataaag tcttaggggt ggggggtgtg gcaagccggc ct 232

<210> 82
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 82
 aggcggggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
 agtaccagta ccaataacat gccagtgcc gtgccagcac cagtgggtggc ttcagtgtg 120
 gtgccagcct gaccgccact ctcacatttg ggctcttcgc tggccttggt ggagctggtg 180
 ccagcaccag tggcagctct ggtgcctgtg gtttctccta caagtgagat tttagatatt 240
 gttaatcctg ccagctcttc tcttcaagcc aggggtgcac ctcagaaacc tactcaacac 300
 agcactctng gcagccacta tcaatcaatt gaagttgaca ctctgcatta aatctatttg 360
 ccatttcaaa aaaaaaaaaa aaa 383

<210> 83
 <211> 494
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(494)
 <223> n = A,T,C or G

<400> 83
 accgaattgg gaccgctggc ttataagcga tcatgtcctc cagtattacc tcaacgagca 60
 gggagatcga gtctatagc tgaagaaatt tgacccgatg ggacaacaga cctgctcagc 120
 ccactcctgct cggttctccc cagatgacaa atactctcga caccgaatca ccatcaagaa 180
 acgcttcaag gtgctcatga cccagcaacc gcgcctgtc ctctgagggg ccttaaaactg 240
 atgtcttttc tgccacctgt taccctctcg agactccgta accaaactct tcggactgtg 300
 agccctgatg ccttttttgc agccatactc tttggcntcc agtctctcgt ggcgattgat 360
 tatgcttggt tgaggcaatc atgggtggcat caccatnaa gggaacacat ttganttttt 420
 tttncatat ttttaattac naccagaata nttcagaata aatgaattga aaaactctta 480

aaaaaaaaaa aaaa

494

<210> 84
<211> 380
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

<400> 84
gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca 60
agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag 120
gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggcttctgg 180
gcacaccctc ctggggccca ggcgggcacc tgcgtctccc agtatgccaa ctggctgggtg 240
gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgctgggtcac ttgctcattg 300
ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360
agcgttnccg cctcatccgg 380

<210> 85
<211> 481
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G

<400> 85
gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggccctctgc ttcataccgc 60
tnccatcgtc atactgtagg ttggccacca cctcctgcac cttggggcgg ctaatatcca 120
ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180
tgtgaaagga tctccagaag gagtgctcga tcttccccac acttttgatg actttattga 240
gtcgattctg catgtccagc aggaggttgt accagctctc tgacagtgag gtcaccagcc 300
ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggg gnagtctcac 360
ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420
aaagaacacc tcctggaagt gctngccgct cctcgtoent tgggtggngc gcntnccttt 480
t 481

<210> 86
<211> 472
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

<400> 86
aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt 60

60

```

acttggaataa gcaacttnaa gcctggacac tggattataa attcacaata tgcaacactt 120
taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg 180
ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga 240
cacaagtccg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcactttctt 300
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttgggagctg 360
atatntgagc ggaagantag cctttctact tcaccagaca caactccttt catattggga 420
tgtnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg 472

```

```

<210> 87
<211> 413
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(413)
<223> n = A,T,C or G

```

```

<400> 87
agaaaccagt atctctnaaa acaacctctc ataccttgtg gacctaatTT tgtgtgcgtg 60
tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg 120
cctcttttgg atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct 180
ttgtcttctg tgtaaattgg actagagaaa acacctatnt tatgagtcaa tctagttingt 240
tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc cttgactagg 300
ggggacaaag aaaagcnaaa ctgaacatna gaaacaattn cctggtgaga aattncataa 360
acagaaattg ggtngtatat tgaaananng catcattnaa acgttttttt ttt 413

```

```

<210> 88
<211> 448
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(448)
<223> n = A,T,C or G

```

```

<400> 88
cgcagcgggt cctctctatc tagctccagc ctctcgectg ccccaactccc cgcgtcccg 60
gtcctagccn accatggccg ggcccctgcg cgcccctgctg ctctgctgg ccacctggc 120
cgtggccctg gccgtgagcc ccgcggcccg ctccagtcce ggcaagccgc cgcgcctggt 180
gggaggccca tggaccccg cgtggaagaag aagggtgtgcg gcggtgactg gactttgccg 240
tcggcnanta caacaaaccc gcaacnaact ttaccnagcn cgcgctgcag gttgtgccg 300
cccaancaaa ttgttactng gggtaanata ttcttggaag ttgaacctgg gccaaacnng 360
tttaccagaa ccnagccaat tngaacaatt ncccctocat aacagcccct tttaaaaagg 420
gaancantcc tgntcttttc caaatTTT 448

```

```

<210> 89
<211> 463
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(463)

<223> n = A,T,C or G

<400> 89

gaattttgtg	cactggccac	tgtgatggaa	ccattgggcc	aggatgcttt	gagtttatca	60
gtagtgattc	tgccaaagtt	gggtgttgtaa	catgagtatg	taaaatgtca	aaaaattagc	120
agaggcttag	gtctgcatat	cagcagacag	tttgtccgtg	tattttgtag	ccttgaagtt	180
ctcagtgaca	agttinntct	gatgcgaagt	tctnattcca	gtgttttagt	cctttgcata	240
tttnatgttn	agacttgcc	ctntnaaatt	gcttttgtnt	tctgcaggta	ctatctgtgg	300
tttaacaaaa	tagaannact	tctctgcttn	gaanatttga	atatcttaca	tctnaaaatn	360
aattctctcc	ccatannaaa	acccangccc	ttggganaat	ttgaaaaang	gntccttcnn	420
aattcnnana	anttcagntn	tcatacaaca	naacngganc	ccc		463

<210> 90

<211> 400

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(400)

<223> n = A,T,C or G

<400> 90

agggattgaa	gggtctntnt	actgtcggac	tgttcancca	ccaactctac	aagttgctgt	60
cttccactca	ctgtctgtaa	gcntnttaac	ccagactgta	tcttcataaa	tagaacaaat	120
tcttcaccag	tcacatcttc	taggaccttt	ttggattcag	ttagtataag	ctcttcact	180
tcctttgtta	agacttcata	tggtaaagtc	ttaagttttg	tagaaaggaa	tttaattgct	240
cgttctctaa	caatgtcctc	tccttgaagt	atttggctga	acaaccacc	tnaagtcctt	300
ttgtgcatcc	attttaaata	tacttaatag	ggcatttggt	cactagggtta	aattctgcaa	360
gagtcactctg	tctgcaaaa	ttgcgttagt	atatctgcca			400

<210> 91

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(480)

<223> n = A,T,C or G

<400> 91

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
gggtotacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcctcttt	gactaccgtg	tgccagtgtc	gggtgattctc	acacacctcc	nnccgctctt	180
tgtggaaaaa	ctggcacttg	nctggaaacta	gcaagacata	acttacaaat	tcaccacaga	240
gacacttgaa	aggtgtaaca	aagcgactct	tgcatgtgctt	tttgtccctc	cggcaccagt	300
tgtcaataact	aaccgctgg	tttgccctcca	tcacatttgt	gatctgtagc	tctggataca	360
tctcctgaca	gtactgaaga	acttcttctt	ttgtttcaaa	agcaactctt	ggtgcctgtt	420
ngatcagggt	cccatctccc	agtcggaatg	ttcacatggc	atatnttact	tcccacaaaa	480

<210> 92

<211> 477

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<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G
```

```
<210> 93
<211> 377
<212> DNA
<213> Homo sapien
```

```
<210> 94
<211> 495
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(495)
<223> n = A,T,C or G
```

<400> 94								
ccctttgagg	ggttagggtc	cagttcccag	tggaagaaac	agggcaggag	aantgcgtgc		60	
cgagctgag	cagatttccc	acagtgacc	cgagagccctg	ggctatagtc	tctgaccoc		120	
ccaaggaag	accaccttct	ggggacatgg	gctggagggc	aggacctaga	ggcaccaagg		180	
gaaggcccca	ttccggggct	gttccccgag	gaggaagggg	aggggctctg	tgtgcccccc		240	
acgaggaana	ggccctgant	cctgggatca	nacaccctt	cacgtgtatc	cccacacaaa		300	
tgcaagctca	ccaaggtccc	ctctcagtec	cttccttaca	ccctgaacgg	naactggccc		360	


```
<220>
<221> misc_feature
<222> (1)...(479)
<223> n = A,T,C or G
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aaataatgct	gcaaacttaa	tgttcttatg	caaaatggaa	cgctaatagaa	acacagctta	120
caatcgcaa	tcaaaactca	caagtgctca	tctgttgtag	atttagtgta	ataagactta	180
gattgtgctc	cttcggatat	gattgtttct	canatcttgg	gcaatnttcc	ttagtcaa	240
caggctacta	gaattctggt	attggatatn	tgagagcatg	aaatttttaa	naatacactt	300
gtgat tatna	aattaatcac	aaatttcact	tatacctgct	atcagcagct	agaaaaacat	360
ntnnttttta	natcaaagta	ttttgtgttt	ggaantgtnn	aaatgaaatc	tgaatgtggg	420
ttcnatotta	ttttttcccn	gacnactant	tnctttttta	gggnctattc	tganccatc	479

<213> Homo sapien

<400> 98					60
agtgacttgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta
tgctagtcc	tgctcatctat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca
tcaactccag	ctggattatt	ttggagcctg	caaatctatt	cctacttgta	cggactttga
agtgattcag	tttctctac	ggatgagaga	ctggctcaag	aatatcctca	tgcagcttta
tgaagccact	ctgaacacgc	tggttatcta	gatgagaaca	gagaaataaa	gtcagaaaaat
ttacctggag	aaaagaggct	ttggctgggg	accatcccat	tgaaccttct	cttaagggact
ttaagaaaaa	ctaccacatg	ttgtgtatcc	tggtgccggc	cgtttatgaa	ctgaccaccc
tttgaataaa	tcttgacgct	cctgaacttg	ctcctctgcg	a	
					461

<213> Homo sapien

```

gtggccgcgc gcaggtgttt cctcgtaccg cagggccccc tcccttcccc aggcgtccct 60
cggcgctctt gcgggcccga ggaggagcgg ctggcgggtg gggggagtgt gacccaccct 120
cggtgagaaa agccttctct agcgatctga gaggcgtgcc ttgggggtac c 171

```

<213> Homo sapien

cggccgcaag	tgcaactcca	gctggggccg	tgcggacgaa	gattctgcca	gcagttggtc	60
cgactcgac	gacggcgcg	gcgacagtcg	caggtgcagc	gcgggcgcct	ggggtcttgc	120
aaggctgagc	tgacgcgcga	gaggtcgtgt	cacgtcccac	gacctgacg	ccgtcgggga	180
cagccggaac	agagcccggg	gaagcgggag	gcctcgggga	gcccctcggg	aagggcggcc	240
cgagagatac	gcaggtgcag	gtggccgcc				269

<213> Homo sapien

tttttttttt ttttqgaatc tactgcgagc acagcaggtc agcaacaagt ttattttgca 60

gctagcaagg	taacagggta	gggcatgggt	acatgttcag	gtcaaacttc	tttgtcgtgg	120
ttgattgggt	tgtctttatg	ggggcgggg	ggggtagggg	aaacgaagca	aataacatgg	180
agtgggtgca	ccctccctgt	agaacctgg	tacaaagctt	ggggcagttc	acctggctctg	240
tgaccgtcat	tttcttgaca	tcaatgttat	tagaagtcag	gatatctttt	agagagcca	300
ctgttctgga	gggagattag	ggtttcttgc	caaatccaac	aaaatccact	gaaaaagttg	360
gatgatcagt	acgaataccg	aggcatattc	tcatatcggg	ggcca		405

<210> 102
 <211> 470
 <212> DNA
 <213> Homo sapien

<400> 102						
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ggcacttaat	ccatttttat	ttcaaaatgt	ctacaaattt	aatcccat	tacgggtattt	120
tcaaaatcta	aattattcaa	attagccaaa	tccttaccaa	ataataccca	aaaatcaaaa	180
atatacttct	ttcagcaaac	ttgttacata	aattaaaaaa	atatatacgg	ctgggtgtttt	240
caaagtacaa	ttatcttaac	actgcaaaaca	ttttaaggaa	ctaaaaataaa	aaaaaacact	300
ccgcaaaggt	taaaggggaa	aacaaattct	tttacaacac	cattataaaa	atcatatctc	360
aaatcttagg	ggaatatata	cttcacacgg	gatcttaact	tttactcact	ttgtttattt	420
ttttaaacca	ttgtttgggc	ccaacacaa	ggaatcccc	ctggactagt		470

<210> 103
 <211> 581
 <212> DNA
 <213> Homo sapien

<400> 103						
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tacacatatt	tattttataa	ttggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaatc	tgccataaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tctttaaaaa	tatctaattc	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctottat	ctactattag	taagtggcct	ttttcctaaa	360
agggaaaaca	ggaagagaaa	tggcacacaa	aacaaacatt	ttatattcat	atttctacct	420
acgttaataa	aatagcattt	tgtgaagcca	gtcaaaaga	aggcttagat	ccttttatgt	480
ccattttagt	cactaaacga	tatcaaagtg	ccagaatgca	aaaggtttgt	gaacatttat	540
tcaaaagcta	atataagata	tttcacatac	tcatctttct	g		581

<210> 104
 <211> 578
 <212> DNA
 <213> Homo sapien

<400> 104						
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ctcttatgct	atatcatatt	ttaagttaaa	ctaagagtc	actggcttat	cttctcctga	180
aggaaatctg	ttcattcttc	tcattcatat	agttatatca	agtactacct	tgcatattga	240
gagggttttc	ttctctat	acacatatat	ttccatgtga	atttgtatca	aacctttatt	300
ttcatgcaaa	ctagaaaata	atgtttcttt	tgcataagag	aagagaacaa	tatagcatta	360
caaaactgct	caaattgttt	gttaagttat	ccattataat	tagttggcag	gagctaatac	420
aaatcacatt	tacgacagca	ataataaaac	tgaagtacca	gttaaatatc	caaaataatt	480
aaaggaacat	ttttagcctg	ggtataatta	gctaattcac	tttacaagca	tttattagaa	540

tgaattcaca tggtattatt cctagcccaa cacaaatgg

578

<210> 105

<211> 538

<212> DNA

<213> Homo sapien

<400> 105

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gaaaagtgcc	ttacatttaa	taaaagtttg	tttctcaaag	tgatcagagg	aattagatat	120
gtcttgaaca	ccaatattaa	tttgaggaaa	atacaccaaa	atacattaag	taaattattt	180
aagatcatag	agcttgtaag	tgaaaagata	aaatttgacc	tcagaaactc	tgagcattaa	240
aaatccacta	ttagcaaata	aattactatg	gacttcttgc	tttaattttg	tgatgaatat	300
ggggtgtcac	tggtaaacca	acacattctg	aaggatacat	tacttagtga	tagattctta	360
tgtactttgc	taatacgtgg	atatgagttg	acaagtttct	ctttcttcaa	tcttttaagg	420
ggcgagaaat	gaggaagaaa	agaaaaggat	tacgcatact	gttctttcta	tggaaggatt	480
agatatgttt	cctttgccaa	tattaaaaaa	ataataatgt	ttactactag	tgaaaccc	538

<210> 106

<211> 473

<212> DNA

<213> Homo sapien

<400> 106

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atttattagc	tctgcaactt	acatatttaa	attaaagaaa	cgtttttagac	aactgtacaa	120
tttataaatg	taaggtgcca	ttattgagta	atatattcct	ccaagagtgg	atgtgtccct	180
tctcccacca	actaatgaac	agcaacatta	gtttaatttt	attagtagat	atacactgct	240
gcaaacgcta	attctcttct	ccatccccc	gtgatattgt	gtatatgtgt	gagttggtag	300
aatgcatcac	aatctacaat	caacagcaag	atgaagctag	gctgggcttt	cggtgaaaat	360
agactgtgtc	tgtctgaatc	aaatgatctg	acctatcctc	ggtggcaaga	actcttcgaa	420
ccgcttcttc	aaaggcgctg	ccacatttgt	ggctctttgc	acttgtttca	aaa	473

<210> 107

<211> 1621

<212> DNA

<213> Homo sapien

<400> 107

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ctgtgctatg	gtcctggctg	acttcggggc	gcgtgtggta	cgctgtggacc	ggcccggctc	120
ccgctacgac	gtgagccgct	tgggccgggg	caagcgctcg	ctagtgtctg	acctgaagca	180
gcgcggggga	gccgccgtgc	tgccggctct	gtgcaagcgg	tcggatgtgc	tgctggagcc	240
cttcgcccg	ggtgtcatgg	agaaactcca	gctgggcccc	gagattctgc	agcgggaaaa	300
tccaaggctt	atztatgcca	ggctgagtgg	atttggccag	tcaggaagct	tctgccggtt	360
agctggccac	gatatcaact	atttggtttt	gtcaggtgtt	ctctcaaaaa	ttggcagaag	420
tggtgagaat	ccgtatgccc	cgctgaatct	cctggctgac	tttgctggtg	gtggccttat	480
gtgtgcactg	ggcattataa	tggctctttt	tgaccgcaca	cgcaactgaca	agggctcaggt	540
cattgatgca	aatatggttg	aaggaacagc	atatttaagt	tcttttctgt	ggaaaactca	600
gaaatcgagt	ctgtgggaag	cacctcgagg	acagaacatg	ttggatggtg	gagcaccttt	660
ctatacgact	tacaggacag	cagatgggga	attcatggct	gttgagacaa	tagaacccca	720
gttctacgag	ctgctgatca	aaggacttgg	actaaagtct	gatgaacttc	ccaatcagat	780
gagcatggat	gattggccag	aaatgaagaa	gaagtttgca	gatgtatttg	caaagaagac	840
gaaggcagag	tggtgtcaaa	tctttgacgg	cacagatgcc	tgtgtgactc	cggttctgac	900

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<210> 108
<211> 382
<212> PRT
<213> Homo sapien
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	<400>						108											
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Gly	Pro	Phe	Cys 20	Ala	Met	Val	Leu	Ala 25	Asp	Phe	Gly	Ala	Arg 30	Val	Val			
Arg	Val	Asp 35	Arg	Pro	Gly	Ser	Arg 40	Tyr	Asp	Val	Ser	Arg 45	Leu	Gly	Arg			
Gly	Lys 50	Arg	Ser	Leu	Val	Leu 55	Asp	Leu	Lys	Gln 60	Pro	Arg	Gly	Ala	Ala			
Val 65	Leu	Arg	Arg	Leu	Cys 70	Lys	Arg	Ser	Asp 75	Val	Leu	Leu	Glu	Pro	Phe 80			
Arg	Arg	Gly	Val	Met 85	Glu	Lys	Leu	Gln 90	Leu	Gly	Pro	Glu	Ile 95	Leu	Gln			
Arg	Glu	Asn 100	Pro	Arg	Leu	Ile	Tyr	Ala 105	Arg	Leu	Ser	Gly	Phe 110	Gly	Gln			
Ser	Gly	Ser 115	Phe	Cys	Arg	Leu	Ala 120	Gly	His	Asp	Ile	Asn 125	Tyr	Leu	Ala			
Leu	Ser 130	Gly	Val	Leu	Ser	Lys 135	Ile	Gly	Arg	Ser	Gly 140	Glu	Asn	Pro	Tyr			
Ala 145	Pro	Leu	Asn	Leu	Leu 150	Ala	Asp	Phe	Ala	Gly 155	Gly	Gly	Leu	Met	Cys 160			
Ala	Leu	Gly	Ile	Ile 165	Met	Ala	Leu	Phe	Asp 170	Arg	Thr	Arg	Thr	Asp 175	Lys			
Gly	Gln	Val	Ile 180	Asp	Ala	Asn	Met	Val 185	Glu	Gly	Thr	Ala	Tyr 190	Leu	Ser			
Ser	Phe 195	Leu	Trp	Lys	Thr	Gln 200	Lys	Ser	Ser	Leu	Trp	Glu 205	Ala	Pro	Arg			
Gly	Gln 210	Asn	Met	Leu	Asp	Gly 215	Gly	Ala	Pro	Phe	Tyr 220	Thr	Thr	Tyr	Arg			
Thr 225	Ala	Asp	Gly	Glu	Phe 230	Met	Ala	Val	Gly 235	Ala	Ile	Glu	Pro	Gln	Phe 240			
Tyr	Glu	Leu	Leu	Ile 245	Lys	Gly	Leu	Gly	Leu 250	Lys	Ser	Asp	Glu	Leu 255	Pro			
Asn	Gln	Met	Ser 260	Met	Asp	Asp	Trp	Pro 265	Glu	Met	Lys	Lys	Lys 270	Phe	Ala			

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<210> 109
<211> 1524
<212> DNA
<213> Homo sapien
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<210> 110
<211> 3410
<212> DNA
<213> Homo sapien
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<400> 110

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 3410

<210> 111
 <211> 1289
 <212> DNA
 <213> Homo sapien

<400> 111
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 ccatgcagtg cttcagcttc attaaagacca tgatgatoct cttcaatttg ctcactcttc 180
 tgtgtggtgc agccctgttg gcagtgggca tctgggtgtc aatcgatggg gcactccttc 240
 tgaagatctt cgggccactg tcgtccagtg ccatgcagtt tgtcaacgtg ggctacttcc 300
 tcatcgcagc cggcggtgtg gtctttgctc ttggtttcct gggctgctat ggtgctaaga 360
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 tgctggtagt gcctgccatc aagaaagatt atggttccca ggaagacttc actcaagtgt 540
 ggaacaccac catgaaaggg ctcaagtgtc gtggcttcac caactatacg gattttgagg 600
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 ccaacacagc caatgaaacc tgcaccaagc aaaaggctca cgaccaaaaa gtagagggtt 720
 gcttcaatca gcttttgtat gacatccgaa ctaatgcagt caccgtgggt ggtgtggcag 780
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 gtagccagtt ctgttgccca ttccccagct ctattaaacc cttgatatgc cccctaggcc 1140
 tagtggtgat ccagtgctc tactggggga tgagagaaag gcattttata gcctgggcat 1200
 aagtgaaatc agcagagcct ctgggtggat gtgtagaagg cacttcaaaa tgcataaacc 1260
 tgttacaatg ttaaaaaaaa aaaaaaaaaa 1289

<210> 112
 <211> 315
 <212> PRT
 <213> Homo sapien

<400> 112
 Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln
 1 5 10 15
 Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe
 20 25 30
 Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala
 35 40 45
 Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu
 50 55 60
 Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro
 65 70 75 80
 Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser
 85 90 95
 Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys
 100 105 110
 Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe


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<210> 113
<211> 553
<212> PRT
<213> Homo sapien
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Met	Val	Gln	Arg	Leu	Trp	Val	Ser	Arg	Leu	Leu	Arg	His	Arg	Lys	Ala	
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Gln	Leu	Leu	Leu	Val	Asn	Leu	Leu	Thr	Phe	Gly	Leu	Glu	Val	Cys	Leu	
				20				25					30			
Ala	Ala	Gly	Ile	Thr	Tyr	Val	Pro	Pro	Leu	Leu	Leu	Glu	Val	Gly	Val	
				35			40					45				
Glu	Glu	Lys	Phe	Met	Thr	Met	Val	Leu	Gly	Ile	Gly	Pro	Val	Leu	Gly	
				50		55					60					
Leu	Val	Cys	Val	Pro	Leu	Gly	Ser	Ala	Ser	Asp	His	Trp	Arg	Gly		
65				70					75					80		
Arg	Tyr	Gly	Arg	Arg	Arg	Pro	Phe	Ile	Trp	Ala	Leu	Ser	Leu	Gly	Ile	
				85					90					95		
Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	Gly	Trp	Leu	Ala	Gly	Leu	
				100				105					110			
Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Leu	Ile	Leu	Gly	
				115			120					125				
Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	Cys	Phe	Thr	Pro	Leu	Glu	
				130		135					140					
Ala	Leu	Leu	Ser	Asp	Leu	Phe	Arg	Asp	Pro	Asp	His	Cys	Arg	Gln	Ala	
145				150						155				160		
Tyr	Ser	Val	Tyr	Ala	Phe	Met	Ile	Ser	Leu	Gly	Gly	Cys	Leu	Gly	Tyr	
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<210> 114
<211> 241
<212> PRT
<213> Homo sapien
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<400> 114
 Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu
 1 5 10 15
 Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val
 20 25 30
 Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser
 35 40 45
 Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly
 50 55 60
 Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr
 65 70 75 80
 Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile
 85 90 95
 Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr
 100 105 110
 Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys
 115 120 125
 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met
 130 135 140
 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp
 145 150 155 160
 Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn
 165 170 175
 Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala
 180 185 190
 His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile
 195 200 205
 Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly
 210 215 220
 Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu
 225 230 235 240
 Gln

<210> 115
 <211> 366
 <212> DNA
 <213> Homo sapien

<400> 115
 gctctttctc tccctcctc tgaatttaat tctttcaact tgcaatttgc aaggattaca 60
 catttcactg tgatgtatat tgtgttgcaa aaaaaaaaaa gtgtctttgt ttaaaattac 120
 ttggtttggt aatccatctt gctttttccc cattggaact agtcattaac ccatctctga 180
 actggtagaa aaacatctga agagctagtc tatcagcatc tgacaggtga attggatggt 240
 tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttggt 300
 tctctacatg cataacaaac cctgctccaa tctgtcacat aaaagtctgt gacttgaagt 360
 ttagtc 366

<210> 116
 <211> 282
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(282)
 <223> n = A,T,C or G

<400> 116
 acaaagatga accatttcct atattatagc aaaattaaaa tctaccgta ttctaattatt 60
 gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa 120
 agactttact attttcatat ttttaagacac atgatttatc ctatttttagt aacctgggtc 180
 atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt 240
 tcaatctnga actatctana tcacagacat ttctattcct tt 282

<210> 117
 <211> 305
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(305)
 <223> n = A,T,C or G

<400> 117
 acacatgtcg cttcactgcc ttcttagatg cttctgggtca acatanagga acagggacca 60
 tattttatcct ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa 120
 aataaggcaa aatatatgaa acaacagggtc tcgagatatt ggaaatcagt caatgaagga 180
 tactgatccc tgatcactgt cctaattgcag gatgtgggaa acagatgagg tcacctctgt 240
 gactgcccc gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat 300
 tgggt 305

<210> 118
 <211> 71
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(71)
 <223> n = A,T,C or G

<400> 118
 accaaggtgt ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa 60
 aantcctggg t 71

<210> 119
 <211> 212
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(212)
 <223> n = A,T,C or G

<400> 119

```
<210> 120
<211> 90
<212> DNA
<213> Homo sapien
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<400> 120

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<210> 121
<211> 218
<212> DNA
<213> Homo sapien
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<400> 121

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<210> 122
<211> 171
<212> DNA
<213> Homo sapien
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<400> 122

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<210> 123
<211> 76
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(76)
<223> n = A,T,C or G
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<400> 123
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 ttatcaanta ttgtgt 76

<210> 124
 <211> 131
 <212> DNA
 <213> Homo sapien

<400> 124
 acctttcccc aaggccaatg tcctgtgtgc taactggccg gctgcaggac agctgcaatt 60
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120
 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
 actttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60
 cttgaaaaag aggtgatagc ttttcagagg acttgtgact tttgctcaga tgctgaagaa 120
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180
 ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240
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 catggtgggg gtcttgcac tgtaagaatg gaattgattt tgcttttgca agaattctcag 360
 caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccctc agtgcctctc 420
 ctctttgctt gt 432

<210> 126
 <211> 112
 <212> DNA
 <213> Homo sapien

<400> 126
 acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60
 agtaagaatg atatttcccc ccagggatca ccaaataattt ataaaaattt gt 112

<210> 127
 <211> 54
 <212> DNA
 <213> Homo sapien

<400> 127
 accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 128
 acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 60

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<210> 129
<211> 192
<212> DNA
<213> Homo sapien
```

<400> 129

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<210> 130
<211> 362
<212> DNA
<213> Homo sapien
```

<400> 130

```
<210> 131
<211> 332
<212> DNA
<213> Homo sapien
```

<400> 131

<400> 151
ctttttgaaa gatcgtgtcc actcctgtgg acatcttggt ttaatggagt ttcccatgca 60
qtanqactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga 120

```
<210> 132
<211> 322
<212> DNA
<213> Homo sapien
```

<400> 132

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<210> 133
<211> 278
<212> DNA
<213> Homo sapien
```

<400> 133

```
<210> 134
<211> 121
<212> DNA
<213> Homo sapien
```

<400> 134

gtttanaaaa cttgtttagc tccatagagg aaagaatggt aaactttgta ttttaaaaca 60
tgattctctg aggttaaact tgggtttcaa atgttatatt tacttgatt ttgcttttgg 120
t 121

<210> 135
 <211> 350
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(350)
 <223> n = A,T,C or G

<400> 135
 acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc 60
 atancaagtg gtgactgggt aagcgtgcga caaaggctcag ctggcacatt acttgtgtgc 120
 aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tggtaactcca 180
 gggtgccccc caactcctgc agccgctcct ctgtgccagn ccctgnaagg aactttcgct 240
 ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttgctgag 300
 ttcccaagga tgcaaagcct ggtgctcaac tcctggggcg tcaactcagt 350

<210> 136
 <211> 399
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 136
 tgtaccgtga agacgacaga agttgcatgg cagggacagg gcagggccga ggccaggggt 60
 gctgtgattg tatccgaata ntcctcgtga gaaaagataa tgagatgacg tgagcagcct 120
 gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttggctctga 180
 cctggcggcc agccagccag ccacaggtgg gcttcttctt tttgtggtga caacnccaag 240
 aaaactgcag agggccaggg tcaggtgtna gtgggtangt gaccataaaa caccaggtgc 300
 tcccaggaac ccgggcaaag gccatcccca cctacagcca gcatgcccac tggcgtgatg 360
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

<210> 137
 <211> 165
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A,T,C or G

<400> 137
 actggtgtgg tnggggggtga tgctggtggt anaagttgan gtgacttcan gatggtgtgt 60
 ggaggaagtg tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga 120
 ttggctgggt ccactggtgg tcaactgtcat tgggtggggt cctgt 165

<210> 138

<211> 338
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(338)
 <223> n = A,T,C or G

<400> 138
 actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc 60
 ttaacttctc cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccaa 120
 tgetgggcag tctcccatgc cttccacagt gaaagggctt gagaaaaatc acatccaatg 180
 tcatgtgttt ccagccacac caaaaggtgc ttgggggtgga gggctggggg catananggt 240
 cangcctcag gaagcctcaa gttccattca gctttgccac tgtacattcc ccatntttaa 300
 aaaaactgat gccttttttt tttttttttg taaaattc 338

<210> 139
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 139
 gggaatcttg gtttttggca tctggtttgc ctatagccga ggccactttg acagaacaaa 60
 gaaagggact tcgagtaaga aggtgattta cagccagcct agtgcccgaa gtgaaggaga 120
 attcaaacag acctcgatcat tcctgggtgtg agcctggteg gctcacccgc tatcatctgc 180
 atttgcttta ctcaggtgct accggaactct ggcccctgat gtctgtagtt tcacaggatg 240
 ccttatttgt cttctacacc ccacagggcc ccctacttct tcggatgtgt ttttaataat 300
 gtcagctatg tgccccatcc tccttcatgc cctccctccc tttcctacca ctgctgagtg 360
 gcctggaact tgtttaaagt gt 382

<210> 140
 <211> 200
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(200)
 <223> n = A,T,C or G

<400> 140
 accaaanctt ctttctgttg tgttngattt tactataggg gtttngcttn ttctaaanat 60
 acttttcatt taacancttt tgttaagtgt caggctgcac tttgctccat anaattattg 120
 ttttcacatt tcaacttgta tgtgtttgtc tcttanagca ttgggtgaaat cacatatttt 180
 atattcagca taaaggagaa 200

<210> 141
 <211> 335
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

69308260

<222> (1)...(335)

<223> n = A,T,C or G

<400> 141

actttat	tttt	caaaac	actc	atatgt	tgc	aaaaac	acat	agaaaa	aataa	agttt	ggtg	60
gggtg	ctgac	taaact	tcaa	gtcac	agact	tttat	gtgac	agatt	ggagc	aggg	ttgtt	120
atgcat	gtag	agaacc	caaa	ctaatt	tatt	aaacag	gata	gaaac	aggct	gtct	gggtga	180
aatgg	ttctg	agaacc	atcc	aattc	acctg	tcagat	gctg	atanac	tagc	tcttc	agatg	240
ttttt	ctacc	agttc	agaga	tnggt	taatg	actant	tcca	atggg	gaaaa	agcaag	atgg	300
attcac	aaac	caagta	attt	taaaca	aaaga	cactt						335

<210> 142

<211> 459

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(459)

<223> n = A,T,C or G

<400> 142

accagg	ttaa	tattg	ccaca	tatat	ccttt	ccaatt	gcgg	gctaa	acaga	cgtgt	attta	60
gggtt	gttta	aagaca	accc	agctt	aatat	caagag	aaat	tgtga	ccttt	catg	gagtat	120
ctgat	ggaga	aaacac	tgag	ttttg	acaaa	tcttat	tttta	ttcac	atagc	agtct	gatca	180
cacat	ggtec	aacaac	actc	aaata	ataaaa	tcaaata	atna	tcagat	gtta	aagatt	ggtc	240
ttcaa	acatc	atagcc	aatg	atgccc	cgct	tgcct	tataat	ctctc	cgaca	taaa	accaca	300
tcaac	acctc	agtgg	ccacc	aaacc	attca	gcacag	cttc	cttaac	tgtg	agctg	tttga	360
agctac	cagt	ctgag	cacta	ttgact	atnt	ttttc	angct	ctgaat	agct	ctagg	gatct	420
cagc	anggt	gggag	gaacc	agctc	aacct	tggc	gtant					459

<210> 143

<211> 140

<212> DNA

<213> Homo sapien

<400> 143

acattt	cctt	ccacca	agtc	aggact	cctg	gcttct	gtgg	gagtt	ccttat	cacct	gaggg	60
aaatc	caaac	agtct	ctcct	agaaag	gaat	agtg	tcacca	acccc	accca	tctcc	ctgag	120
accat	ccgac	ttccct	gtgt									140

<210> 144

<211> 164

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(164)

<223> n = A,T,C or G

<400> 144

acttc	agtaa	caacata	caa	taaca	acatt	aagt	gtatat	tgccat	ccttt	gtcatt	tttct	60
atctata	acca	ctctcc	cttc	tgaaa	acaan	aatc	actanc	caatc	actta	tacaa	atttg	120

<211> 477
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(477)
 <223> n = A,T,C or G

<400> 148
 acaaccactt tatctcatcg aatttttaac ccaaactcac tcaactgtgcc tttctatcct 60
 atgggatata ttatttgatg ctccatttca tcacacatat atgaataata cactcatact 120
 gccctactac ctgctgcaat aatcacattc ccttcctgtc ctgaccctga agccattggg 180
 gtggctcctag tggccatcag tccangcctg caccttgagc ccttgagctc cattgctcac 240
 nccanccac ctcaccgacc ccatcctctt acacagctac ctcccttgctc tctaacccca 300
 tagattatnt ccaaattcag tcaattaagt tactattaac actctaccgg acatgtccag 360
 caccactggg aagccttctc cagccaacac acacacacac acacncacac acacacatat 420
 ccaggcacag gctacctcat cttcacaatc acccctttaa ttaccatgct atgggtgg 477

<210> 149
 <211> 207
 <212> DNA
 <213> Homo sapien

<400> 149
 acagttgtat tataatatca agaaataaac ttgcaatgag agcattttaag agggaagaac 60
 taacgtatnt tagagagcca aggaagggtt ctgtggggag tgggatgtaa ggtggggcct 120
 gatgataaat aagagtcagc caggtaagtg ggtggtgtgg tatgggcaca gtgaagaaca 180
 tttcaggcag agggaacagc agtgaaa 207

<210> 150
 <211> 111
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(111)
 <223> n = A,T,C or G

<400> 150
 accttgatnt cattgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg 60
 cacttaaatg tggtcagtgt ttggacttgt taactantgg catctttggg t 111

<210> 151
 <211> 196
 <212> DNA
 <213> Homo sapien

<400> 151
 agcgcggcag gtcattattga acattccaga tacctatcat tactcgatgc tgttgataac 60
 agcaagatgg ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat 120
 ggataccaac cggaacccc ctatcccga cagccactg tgggtcccccac tgtctacgag 180
 gtgcatccgg ctgagt 196

<210> 152
 <211> 132
 <212> DNA
 <213> Homo sapien

<400> 152
 acagcacttt cacatgtaag aagggagaaa ttcctaaatg taggagaaag ataacagAAC 60
 cttcccccttt tcatctagtG gtggaaacct gatgctttat gttgacagga atagaaccag 120
 gagggagttt gt 132

<210> 153
 <211> 285
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(285)
 <223> n = A,T,C or G

<400> 153
 acaanaccca nganaggcca ctggccgtgg tgatcatggcc tccaaacatg aaagtgtcag 60
 cttctgctct tatgtcctca tctgacaact ctttaccatt tttatcctcg ctcagcagga 120
 gcacatcaat aaagtccaaa gtcttggaact tggccttggc ttggaggaag tcatcaaac 180
 cctggctagt gaggggtgcg cgccgtcctt ggatgacggc atctgtgaag tcgtgcacca 240
 gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt 285

<210> 154
 <211> 333
 <212> DNA
 <213> Homo sapien

<400> 154
 accacagtcc tgttgggcca gggcttcatg accctttctg tgaaaagcca tattatcacc 60
 accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac 120
 cctaagccgg ttacacagct aactcccact ggccctgatt tgtgaaattg ctgctgcctg 180
 attggcacag gagtcgaagg tgttcagctc ccctcctcgg tggaacgaga ctctgatttg 240
 agtttcacaa attctcgggc cacctcgtca ttgtcctctt gaaataaaat ccggagaatg 300
 gtcaggcctg tctcatccat atggatcttc cgg 333

<210> 155
 <211> 308
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(308)
 <223> n = A,T,C or G

<400> 155
 actggaaata ataaaaccca catcacagtG ttgtgtcaaa gatcatcagg gcatggatgg 60
 gaaagtgcctt tgggaaactgt aaagtgccta acacatgatc gatgattttt gttataatat 120

```

ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc 180
atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggt 240
gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcattgtg 300
gccctggt 308

```

```

<210> 156
<211> 295
<212> DNA
<213> Homo sapien

```

```

<400> 156
accttgctcg gtgcttgga catattagga actcaaaata tgagatgata acagtgccta 60
ttattgatta ctgagagaac tgttagacat ttagttgaag attttctaca caggaactga 120
gaataggaga ttatgttttg ccctcatatt ctctcctatc ctcccttgcc cttctatgt 180
ctaatatatt ctcaatcaaa taaggttagc ataatcagga aatcgaccaa ataccaatat 240
aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

```

```

<210> 157
<211> 126
<212> DNA
<213> Homo sapien

```

```

<400> 157
acaagtttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60
gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc 120
cttagt 126

```

```

<210> 158
<211> 442
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(442)
<223> n = A,T,C or G

```

```

<400> 158
accactggt cttggaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60
aanccagcag gctgccccta gtcagtccct ccttccagag aaaaagagat ttgagaaagt 120
gcctgggtaa ttcaccatta attcctccc ccaaactctc tgagtcttcc cttaatattt 180
ctggtggttc tgaccaaagc aggtcatggt ttgttgagca ttgggatcc cagtgaagta 240
natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300
ccaaccctgt tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga 360
nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420
tgttcattct ctgatgtcct gt 442

```

```

<210> 159
<211> 498
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(498)

<223> n = A,T,C or G

<400> 159

acttccaggt aacgttgttg tttccgttga gcctgaactg atgggtgacg ttgtagggtc	60
tccaacaaga actgaggttg cagagcgggt aggggaagagt gctgttccag ttgcacctgg	120
gctgctgtgg actgttgttg attcctcact acggcccaag gttgtggaac tggcanaaag	180
gtgtgtttgtt gganttgagc tcgggcggct gtggtaggtt gtgggtctctt caacaggggc	240
tgctgtggtg ccgggangtg aangtgttgt gtcacttgag cttggccagc tctggaaagt	300
antanattct tcctgaaggc cagcgttgtt ggagctggca ngggtcantg ttgtgtgtaa	360
ogaaccagtg ctgctgtggg tgggtgtana tcctccacaa agcctgaagt tatggtgtcn	420
tcaggtaana atgtggtttc agtgtccctg ggcngctgtg gaaggttgta nattgtcacc	480
aaggaataa gctgtggt	498

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 160

acctgcatcc agcttccctg ccaaactcac aaggagacat caacctctag acagggaaac	60
agcttcagga tacttccagg agacagagcc accagcagca aaacaaatat tcccatgcct	120
ggagcattggc atagaggaag ctganaaatg tggggtctga ggaagccatt tgagtctggc	180
cactagacat ctcctcagcc acttgtgtga agagatgcc catgacccca gatgcctctc	240
ccacccttac ctccatctca cacacttgag ctttccactc tgtataattc taacatcctg	300
gagaaaaatg gcagtttgac cgaacctgtt cacaacggta gaggtgatt tctaacgaaa	360
cttgtagaat gaagcctgga	380

<210> 161

<211> 114

<212> DNA

<213> Homo sapien

<400> 161

actccacatc cctctgagc aggcgggtgt cgttcaaggt gtatttggcc ttgcctgtca	60
cactgtccac tggccctta tcacttggt gcttaatccc tcgaaagagc atgt	114

<210> 162

<211> 177

<212> DNA

<213> Homo sapien

<400> 162

actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa	60
gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt	120
tggtgatata taacttggca ataaccagc ctggtgatac ataaaactac tcactgt	177

<210> 163

<211> 137

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(137)
<223> n = A,T,C or G

<400> 163
catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtgac 60
canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120
catcagcggc atgatgt 137

<210> 164
<211> 469
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = A,T,C or G

<400> 164
cttatcacia tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
tgcaatgcat catgctatct catacctaata gagggagttc caggagattc aaccaggaaa 120
tgcatggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180
gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240
ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300
gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360
tctagtaggc acagggtctc caggccaggc ctcattctcc tctggcctct aatagtcaat 420
gattgtgtag ccatgcctat cagtaaaaag atntttgagc aaacacttt 469

<210> 165
<211> 195
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(195)
<223> n = A,T,C or G

<400> 165
acagtttttt atanatatcg acattgccgg cacttgtggt cagtttcata aagctgggtg 60
atccgctgtc atccactatt ccttggtctag agtaaaaatt attcttatag cccatgtccc 120
tgcaggccgc ccgccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180
tcctctgaga tgagt 195

<210> 166
<211> 383
<212> DNA
<213> Homo sapien

<400> 166

```
<220>  
<221> misc_feature  
<222> (1)...(247)  
<223> n = A,T,C or G
```

<400> 167

```
<210> 168
<211> 273
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(273)  
<223> n = A,T,C or G
```

<400> 168

```
<210> 169
<211> 431
<212> DNA
<213> Homo sapien
```

 $\langle 220 \rangle$

<221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 169

acagccttgg	cttcccaaaa	ctccacagtc	tcagtgcaga	aagatcatct	tccagcagtc	60
agctcagacc	aggggtcaaag	gatgtgacat	caacagtttc	tggtttcaga	acaggttcta	120
ctactgtcaa	atgaccccc	atacttcctc	aaaggctgtg	gtaagttttg	cacaggtgag	180
ggcagcagaa	aggggggtant	tactgatgga	caccatcttc	tctgtatact	ccacactgac	240
cttgccatgg	gcaaaggccc	ctaccacaaa	aacaatagga	tactgctgg	gcaccagctc	300
acgcacatca	ctgacaaccg	ggatggaaaa	agaantgcc	actttcatac	atccaactgg	360
aaagtgatct	gatactggat	tcttaattac	cttcaaaagc	ttctgggggc	catcagctgc	420
tcgaacactg	a					431

<210> 170
 <211> 266
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(266)
 <223> n = A,T,C or G

<400> 170

acctgtgggc	tgggctgtta	tgctgtgcc	ggctgctgaa	agggagttca	gaggtggagc	60
tcaaggagct	ctgcaggcat	tttgccaanc	ctctccanag	canagggagc	aacctacact	120
ccccgctaga	aagacaccag	attggagtcc	tgggaggggg	agttgggggtg	ggcatttgat	180
gtatacttgt	cacctgaatg	aangagccag	agaggaanga	gacgaanatg	anattggcct	240
tcaaagctag	gggtctggca	ggtgga				266

<210> 171
 <211> 1248
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1248)
 <223> n = A,T,C or G

<400> 171

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcact	cgcagccctg	gcaggcggca	60
ctgggtcatgg	aaaacgaatt	gttctgctcg	ggcgtcctgg	tgcatccgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgagtg	cagagctcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccag	agtacaacag	acccttgctc	gctaacgacc	tcattgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcgggggaact	cttgccctcgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcgggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggagggc	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcaaggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccaggtgtct	acaccaacct	ctgcaaattc	660
actgagtgga	tagagaaaac	cgtccaggcc	agttaactct	ggggactggg	aacccatgaa	720

```
<210> 172
<211> 159
<212> PRT
<213> Homo sapien
```

```
<220>  
<221> VARIANT  
<222> (1)...(159)  
<223> Xaa = Any Amino Acid
```

	<400>	172													
Met	Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro
1				5					10					15	
Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser
			20					25					30		
Glu	Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr
		35					40					45			
Ala	Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly
	50					55					60				
Arg	Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu
65					70					75					80
Glu	Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe
				85					90					95	
Cys	Ala	Gly	Gly	Gly	Gln	Xaa	Gln	Xaa	Asp	Ser	Cys	Asn	Gly	Asp	Ser
			100					105					110		
Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe
		115					120					125			
Gly	Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn
	130					135					140				
Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser	
145					150					155					

```
<210> 173
<211> 1265
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(1265)
<223> n = A,T,C or G
```

<400> 173
ggcagcccgcc actgcgagcc ctggcagggc qcactggtca tggaaaacga attgtttctgc 60

tcgggcgctcc	tggtgcatcc	gcagtgggtg	ctgtcagccg	cacactgttt	ccagaactcc	120
tacaccatcg	ggctgggcct	gcacagtctt	gaggccgacc	aagagccagg	gagccagatg	180
gtggaggcca	gcctctccgt	acggcaccca	gagtacaaca	gacccttget	cgctaacgac	240
ctcatgctca	tcaagttgga	cgaatccgtg	tccgagtctg	acaccatccg	gagcatcagc	300
attgcttcgc	agtgccttac	cgcgggggaa	tcttgccctg	tttctggctg	gggtctgctg	360
gcgaacgggtg	agctcacggg	tgtgtgtctg	ccctcttcaa	ggaggtcctc	tgcccagtcg	420
cgggggctga	cccagagctc	tgcgtcccag	gcagaatgcc	taccgtgctg	cagtgcgtga	480
acgtgtcggg	ggtgtctgag	gaggtctgca	gtaagctcta	tgaccogctg	taccaccca	540
gcatgttctg	cgccggcgga	gggcaagacc	agaaggactc	ctgcaacggg	gactctgggg	600
ggccctgat	ctgcaacggg	tacttgagg	gccttgctgc	tttcggaaaa	gcccctgtg	660
gccaaagtgg	cgtgccagg	gtctacacca	acctctgcaa	attcactgag	tggaatagaga	720
aaaccgctcca	ggccagttaa	ctctggggac	tggaaccca	tgaaattgac	ccccaaatac	780
atcctgcgga	aggaattcag	gaatatctgt	tcccagcccc	tctccctca	ggcccaggag	840
tccaggcccc	cagccctcc	tccctcaaac	caagggtaca	gateccccagc	ccctcctccc	900
tcagacccag	gagtcagag	ccccagccc	ctcctccctc	agacccagga	gtccagcccc	960
tcttcntca	gaccaggag	tccagacccc	ccagccctc	ctccctcaga	cccagggtt	1020
gaggccccca	acccctcctc	cttcagagtc	agaggtccaa	gcccccaacc	cctcgttccc	1080
cagacccaga	ggttnnaggtc	ccagccctc	ttcctcaga	cccagnngtc	caatgccacc	1140
tagattttcc	ctgnacacag	tgcctccctg	tggnangttg	acccaacctt	accagttggg	1200
ttticatttt	tngtcccttt	cccctagatc	cagaaataaa	gtttaagaga	ngngcaaaaa	1260
aaaaa						1265

<210> 174

<211> 1459

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1459)

<223> n = A,T,C or G

<400> 174

ggtcagccgc	acactgtttc	cagaagtgag	tgcagagctc	ctacaccatc	gggctggggc	60
tgcacagtct	tgaggccgac	caagagccag	ggagccagat	ggtggaggcc	agcctctccg	120
tacggcacc	agagtacaac	agacccttgc	tgcctaacga	cctcatgctc	atcaagttgg	180
acgaatccgt	gtccgagtct	gacaccatcc	ggagcatcag	cattgcttcg	cagtgcccta	240
ccgcggggaa	ctcttgctc	gtttctggct	ggggtctgct	ggcgaacggg	gagctcacgg	300
gtgtgtgtct	gccctcttca	aggaggteet	ctgcccagtc	gcgggggctg	accagagct	360
ctgcgtccca	ggcagaatgc	ctaccgtgct	gcagtgcgtg	aacgtgtcgg	tggtgtctga	420
ngaggtctgc	antaagctct	atgacccgct	gtaccacccc	ancatgttct	gcgccggcgg	480
agggcaagac	cagaaggact	cctgcaacgt	gagagagggg	aaaggggagg	gcaggcgact	540
cagggaaggg	tggagaaggg	ggagacagag	acacacaggg	ccgcatggcg	agatgcagag	600
atggagagac	acacagggag	acagtgacaa	ctagagagag	aaactgagag	aaacagagaa	660
ataaacacag	gaataaagag	aagcaaagga	agagagaaac	agaaacagac	atggggaggc	720
agaaacacac	acacatagaa	atgcagttga	ccttccaaca	gcatggggcc	tgagggcggg	780
gacctccacc	caatagaaaa	tcctcttata	acttttgact	ccccaaaaac	ctgactagaa	840
atagcctact	gttgacgggg	agccttacca	ataacataaa	tagtcgattt	atgcatacgt	900
tttatgcatt	catgatatac	ctttgttgga	atTTTTtgat	atttctaagc	tacacagttc	960
gtctgtgaat	TTTTTTaaat	tgttgcaact	ctcctaaaat	ttttctgatg	tgtttattga	1020
aaaaatccaa	gtataagtgg	acttggtgcat	tcaaaccagg	gttgttcaag	ggtcaactgt	1080
gtaccagag	ggaaacagtg	acacagattc	atagaggtga	aacacgaaga	gaaacaggaa	1140
aatcaagac	tctacaaaga	ggctgggcag	ggtggctcat	gcctgtaatc	ccagcacttt	1200
gggaggcgag	gcaggcagat	cacttgaggt	aaggagttca	agaccagcct	ggccaaaatg	1260

```

gtgaaatcct gtctgtacta aaaatacaaa agtttagctgg atatggtggc aggcgcctgt 1320
aatcccagct acttgggagg ctgaggcagg agaattgctt gaatatggga ggcagagggt 1380
gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

```

<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

```

```

<400> 175
gcgcagccct ggcaggcggc actggtcatg gaaaacgaat tggtctgctc gggcgtcctg 60
gtgcattccg agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc 240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcacagcat tgcttcgcag 300
tgccctaccg cgggggaactc ttgcctogtn tctggctggg gtctgctggc gaacggcaga 360
atgcctaccg tgctgcactg cgtgaacgtg tcgggtggtg ctgaggangt ctgcagtaag 420
ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc cagggtgtct caccaacctc 600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gttaactctg gggactggga 660
acccatgaaa ttgaccccca aatacatcct gcggaangaa ttcaggaata tctgttccca 720
gcccctctc cctcaggccc aggagtccag gccccagcc cctcctccct caaaccaagg 780
gtacagatcc ccagccctc ctccctcaga cccaggagtc cagacccccc agcccctent 840
cntcagacc caggagtcca gcccctctc cntcagacgc aggagtccag acccccagc 900
cntentccg tcagaccagc ggggtgcagg ccccaacccc tcntcentca gagtccaggg 960
tccaaagccc caaccctcg ttcccagac ccagaggtnc aggtcccagc cctcctccc 1020
tcagaccagc cgggtccaat ccacctagan tntcctgtg cacagtgcc ccttgtggca 1080
ngttgacca accttaccag ttggtttttc atttttgtc cctttccct agatccagaa 1140
ataaagtnta agagaagcgc aaaaaaa 1167

```

```

<210> 176
<211> 205
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(205)
<223> Xaa = Any Amino Acid

```

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1           5           10           15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
          20           25           30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
          35           40           45

```

Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
 50 55 60
 Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65 70 75 80
 Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
 85 90 95
 Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met
 100 105 110
 Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val
 115 120 125
 Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala
 130 135 140
 Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly
 145 150 155 160
 Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys
 165 170 175
 Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys
 180 185 190
 Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser
 195 200 205

<210> 177
 <211> 1119
 <212> DNA
 <213> Homo sapien

<400> 177

gcgcactcgc	agccctggca	ggcggcactg	gtcatggaaa	acgaattggt	ctgctcgggc	60
gtcctggtgc	atccgcagtg	ggtgctgtca	gccgcacact	gtttccagaa	ctcctacacc	120
atcgggctgg	gcctgcacag	tcttgaggcc	gaccaagagc	cagggagcca	gatggtggag	180
gccagcctct	ccgtacggca	cccagagtac	aacagacct	tgctcgctaa	cgacctcatg	240
ctcatcaagt	tggacgaatc	cgtgtccgag	tctgacacca	tccggagcat	cagcattgct	300
tgcagtgcc	ctaccgcggg	gaactcttgc	ctcgtttctg	gctggggtct	gctggcgaac	360
gatgctgtga	ttgccatcca	gtcccagact	gtgggaggct	gggagtgtga	gaagctttcc	420
caaccctggc	agggttgtac	catttcggca	acttccagtg	caaggacgtc	ctgctgcata	480
ctcactgggt	gctcactact	gctcactgca	tcacccggaa	caactgtgatc	aactagccag	540
caccatagtt	ctccgaagtc	agactatcat	gattactgtg	ttgactgtgc	tgtctattgt	600
actaaccatg	ccgatgttta	ggtgaaatta	gcgtcacttg	gcctcaacca	tcttggtatc	660
cagttatcct	cactgaattg	agatttctctg	cttcagtgtc	agccattccc	acataatttc	720
tgacctacag	agggtgaggga	tcatatagct	cttcaaggat	gctggtactc	ccctcacaaa	780
ttcattttctc	ctgttgtagt	gaaagggtgcg	ccctctggag	cctcccaggg	tgggtgtgca	840
ggtcacaaatg	atgaatgtat	gatcgtgttc	ccattaccca	aagccttta	atccctcatg	900
ctcagtacac	cagggcaggt	ctagcatttc	ttcatttagt	gtatgctgtc	cattcatgca	960
accacctcag	gactcctgga	ttctctgcct	agttgagctc	ctgcatgctg	cctccttggg	1020
gaggtgaggg	agagggccca	tggttcaatg	ggatctgtgc	agttgtaaca	cattaggtgc	1080
ttaataaaca	gaagctgtga	tgttaaaaaa	aaaaaaaaa			1119

<210> 178
 <211> 164
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT

<223> Xaa = Any Amino Acid

[illegible]

<211> 250

<213> Homo sapien

ctggagtgc	ttggtgttc	aagccctgc	aggaagcaga	atgcaccttc	tgaggcacct	60
ccagctgcc	ccggccggg	gatgcgaggc	tggagcacc	cttgcccggc	tgtgattgct	120
gccaggcact	gttcattctca	gctttttctgt	ccctttgctc	ccggcaagcg	cttctgctga	180
aagttcatat	ctggagcctg	atgtcttaac	gaataaaggt	cccattgctc	acccgaaaaa	240
aaaaaaaaa						250

<211> 202

<213> Homo sapien

```
actagttccag  tgtggtggaa  ttccattgtg  ttgggcccaa  cacaatggct  acctttaaca      60
tcacccagac  cccgcccctg  cccgtgcccc  acgctgctgc  taacgacagt  atgatgetta     120
ctctgtact   cggaaactat  ttttatgtaa  ttaatgtatg  ctttcttgtt  tataaatgcc     180
tgatttaaaa  aaaaaaaaaa  aa                                     202
```

<211> 558

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(558)
 <223> n = A,T,C or G

<400> 181
 tccytthgkt naggtthkkg agacamccck agacctwaan ctgtgtcaca gacttcyngg 60
 aatgtthagg cagtgcctagt aatttcytcg taatgattct gttattactt tcctnattct 120
 ttattcctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa 180
 ggtagtgtag tagtataagt atctaagtgc agatgaaagt gtgttatata tatccattca 240
 aaattatgca agttagtaat tactcagggg taactaaatt actttaatat gctgttgaac 300
 ctactctgtt ccttggctag aaaaaattat aaacaggact ttgttagttt gggaagccaa 360
 attgataata ttctatgttc taaaagttgg gctatacata aattattaag aaatatggaw 420
 ttttattccc aggaatatgg kgttcatttt atgaatatta cscrggatag awgtwtgagt 480
 aaaaycagtt ttggtwaata ygtwaatatg tcmtaaataa acaakgcttt gacttatttc 540
 caaaaaaaaa aaaaaaaaaa 558

<210> 182
 <211> 479
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

<400> 182
 acagggtttk grggatgcta agsccccrga rwtggtttga tccaaccctg gcttwttttc 60
 agaggggaaa atggggccta gaagttacag mscatytagy tgggtgcgmg gcacccctgg 120
 cstcacacag astcccaggt agctgggact acaggcacac agtcaactgaa gcaggccctg 180
 ttwgaattc acgttgccac ctccaactta aacattcttc atatgtgatg tccttagtca 240
 ctaagggttaa actttcccac ccagaaaagg caacttagat aaaatcttag agtactttca 300
 tactmttcta agtcctcttc cagcctcact kkgagtcctm cytggggggt gataggaant 360
 ntctcttggc tttctcaata aartctctat ycatctcatg tttaatttgg tacgcatara 420
 awtgstgata aaattaaaaat gttctggtty mactttaaaa aaaaaaaaaa aaaaaaaaaa 479

<210> 183
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 183
 aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
 agtaccagta ccaataacag tgccagtgcc agtgccagca ccagtgggtg cttcagtgc 120
 ggtgccagcc tgaccgccac tctcacattt gggctcttgc ctggccttgg tggagctggt 180
 gccagcacca gtggcagctc tgggtgcctgt ggtttctcct acaagtgaga ttttagatat 240
 tgtaaactct gccagctttt ctcttcaagc cagggtgcat cctcagaaac ctactcaaca 300
 cagcactcta ggcagccact atcaatcaat tgaagttgac actctgcatt aractatatt 360
 gccatttcaa aaaaaaaaaa aaaa 384

<210> 184
 <211> 496

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(496)
<223> n = A,T,C or G

<400> 184
accgaattgg gaccgctggc ttataagcga tcatgtyynt ccrgtatkac ctcaacgagc 60
agggagatcg agtctatacg ctgaagaaat ttgacccgat gggacaacag acctgctcag 120
cccatcctgc tcggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga 180
aacgcttcaa ggtgctcatg acccagcaac cgcgcctgt cctctgaggg tcccttaaac 240
tgatgtcttt tctgccacct gttacccctc ggagactccg taaccaaact cttcggactg 300
tgagccctga tgcctttttg ccagccatac tctttggcat ccagtctctc gtggcgattg 360
attatgcttg tgtgaggcaa tcatgggtggc atcaccata aagggaacac atttgacttt 420
tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst 480
taaaaaaaaa aaaaaa 496

<210> 185
<211> 384
<212> DNA
<213> Homo sapien

<400> 185
gctggtagcc tatggcgkgg cccacggagg ggctcctgag gccacggrac agtgacttcc 60
caagtatcyt gcgcsgcgtc ttctaccgtc cctacctgca gatcttcggg cagattcccc 120
aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggcttct 180
gggcacaccc tcctggggcc caggcgggca cctgcgtctc ccagtatgcc aactggctgg 240
tggtgctgct cctcgtcatc ttctgctcg tggccaacat cctgctggtc aacttgctca 300
ttgccatgtt cagttacaca ttcggaag tacagggcaa cagcgatctc tactgggaag 360
gcgcagcgtt accgcctcat ccgg 384

<210> 186
<211> 577
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(577)
<223> n = A,T,C or G

<400> 186
gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggctctctgc ttcataccgc 60
tnccatcgct atactgtagg tttgccacca cytcctggca tcttggggcg gcntaatatt 120
ccaggaaact ctcaatcaag tcaccgtcga tgaaacctgt gggctgggtc tgtcttcgc 180
tcggtgtgaa aggatctccc agaaggagtg ctcgatcttc ccacacttt tgatgacttt 240
attgagtcga ttctgcatgt ccagcaggag gttgtaccag ctctctgaca gtgaggtcac 300
cagccctatc atgccgttga mcgtgccgaa garcaccgag ccttggtgtg gggkkaagt 360
ctcaccocaga ttctgcatta ccagagagcc gtggcaaaag acattgacaa actcgccag 420
gtggaaaaag amcamctcct ggargtgctn gccgtcctc gtcmgttggt ggcagcgctw 480
tccttttgac acacaaacaa gttaaaggca ttttcagccc ccagaaantt gtcacatcc 540
aagatntcgc acagcactna tccagttggg attaaat 577

<210> 187
 <211> 534
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(534)
 <223> n = A,T,C or G

<400> 187
 aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgstg agaatycaatw 60
 actkkgaaaa gmaacattaa agcctggaca ctgggtattaa aattcacaat atgcaacact 120
 ttaaacagtgt tgtcaatctg ctcccyynac ttgtcatca ccagtctggg aakaagggtta 180
 tgccctattc acacctgtta aaagggcgct aagcattttt gattcaacat cttttttttt 240
 gacacaagtc cgaaaaaagc aaaagtaaac agttatyaat ttgttagcca attcactttc 300
 ttcattggagc agagccatyt gatttaaaaa gcaaattgca taatattgag cttygggagc 360
 tgatatttga gcggaagagt agcctttcta ctccaccaga cacaactccc ttcatattg 420
 ggatgttnac naaagtwatg tctctwacag atgggatgct ttgttggtcaa ttctgttctg 480
 aggatctccc agtttattta ccacttgcac aagaaggcgt tttcttcctc aggc 534

<210> 188
 <211> 761
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(761)
 <223> n = A,T,C or G

<400> 188
 agaaaccagt atctctnaaa acaacctctc ataccttggtg gacctaatth ttgtgtgcgtg 60
 tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg 120
 cctcttttgtt atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct 180
 ttgtcttctg tgtaaatggt actagagaaa acacctatnt tatgagtcaa tctagttngt 240
 tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc ctkgackarg 300
 ggggacaaaag aaaagcaaaa ctgamcataa raaacaatwa cctgggtgaga arttgcataa 360
 acagaaatwr ggtagtatat tgaarnacag catcattaaa rmgttwtktt wttctccctt 420
 gcaaaaaaca tgtacngact tcccgttgag taatgccaaag ttgttttttt tatnataaaa 480
 cttgcccttc attacatggt tnaaagtggg gtgggtgggcc aaaatattga aatgatggaa 540
 ctgactgata aagctgtaca aataagcagt gtgcctaaca agcaacacag taatgttgac 600
 atgcttaatt cacaaatgct aatttcatta taaatgtttg ctaaaataca ctttgaacta 660
 tttttctgtn ttcccagagc tgagatntta gattttatgt agtatnaagt gaaaaantac 720
 gaaaataata acattgaaga aaaananaaa aaanaaaaaa a 761

<210> 189
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(482)

<223> n = A,T,C or G

<400> 189

tttttttttt	tttgccgatn	ctactatttt	attgcaggan	gtgggggtgt	atgcaccgca	60
caccgggggt	atnagaagca	agaaggaagg	agggagggca	cagccccttg	ctgagcaaca	120
aagccgcctg	ctgccttctc	tgtctgtctc	ctggtgcagg	cacatgggga	gaccttcccc	180
aaggcagggg	ccaccagtcc	aggggtggga	atacaggggg	tgggangtgt	gcataagaag	240
tgataggcac	aggccacccg	gtacagaccc	ctcggctcct	gacaggtnga	tttcgaccag	300
gtcattgtgc	cctgcccagg	cacagcgtan	atctggaaaa	gacagaatgc	tttccttttc	360
aaatttggtg	ngtcatngaa	ngggcanttt	tccaanttng	gctnggtcct	ggtacncttg	420
gttcggccca	gctccncgtc	caaaaantat	tcacccnnet	ccnaattgct	tgcnggnccc	480
cc						482

<210> 190

<211> 471

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(471)

<223> n = A,T,C or G

<400> 190

tttttttttt	ttttaaaaca	gtttttcaca	acaaaattta	ttagaagaat	agtggttttg	60
aaaactctcg	catccagtga	gaactaccat	acaccacatt	acagctngga	atgtntccca	120
aatgtctggt	caaatgatac	aatggaacca	ttcaatctta	cacatgcacg	aaagaacaag	180
cgcttttgac	atacaatgca	caaaaaaaaa	aggggggggg	gaccacatgg	attaaaattt	240
taagtactca	tcacatacat	taagacacag	ttctagtcca	gtcnaaaatc	agaactgcnt	300
tgaaaaattt	catgtatgca	atccaaccaa	agaacttnat	tggatgatcat	gantnctcta	360
ctacatcnac	cttgatcatt	gccaggaacn	aaaagttnaa	ancacncngt	acaaaaanaa	420
tctgtaattn	anttcaacct	ccgtacngaa	aaatnttnnt	tatacactcc	c	471

<210> 191

<211> 402

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(402)

<223> n = A,T,C or G

<400> 191

gagggattga	aggtctgttc	tastgtcggm	ctgttcagcc	accaactcta	acaagttgct	60
gtcttccact	cactgtctgt	aagcttttta	acccagacwg	tatcttcata	aatagaacaa	120
attcttcacc	agtcacatct	tctaggacct	ttttggattc	agttagtata	agctcttcca	180
cttcctttgt	taagacttca	tctggtaaag	tcttaagttt	tgtagaaagg	aattyaattg	240
ctcgttctct	aacaatgtcc	tctccttgaa	gtatttggct	gaacaacca	cctaaagtcc	300
ctttgtgcat	ccatttttaa	tatacttaat	agggcattgk	tncactaggt	taaattctgc	360
aagagtcac	tgtctgcaaa	agttgcgtta	gtatatctgc	ca		402

<210> 192

<211> 601
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(601)
 <223> n = A,T,C or G

```

<400> 192
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact      60
ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac      120
atgcytyttt gaytaccgtg tgccaagtgc tgggtgattct yaacacacyt ccatcccgt      180
cttttgtgga aaaactggca cttktctgga actagcarga catcacttac aaattcacc      240
acgagacact tgaaagggtg aacaaagcga ytcttgcatg gctttttgtc cctccggcac      300
cagttgtcaa tactaaccgg ctgggtttgcc tccatcacat ttgtgatctg tagctctgga      360
tacatctcct gacagtactg aagaacttct tcttttgttt caaaagcarc tcttggtgcc      420
tgttgatca ggttcccatt tcccagtcyg aatgttcaca tggcatattt wacttcccac      480
aaaacattgc gatttgaggc tcagcaacag caaatcctgt tccggcattg gctgcaagag      540
cctcgatgta gccggccagc gccaaaggcag gcgcctgag cccaccagc agcagaagca      600
g
  
```

<210> 193
 <211> 608
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(608)
 <223> n = A,T,C or G

```

<400> 193
atacagccca natccacca cgaagatgcg cttgttgact gagaacctga tgcggctcact      60
ggtoocgctg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcytt      120
cccaacgcag gcagmagcgg gscgggtcaa tgaactccay tctgtggttg gggtkgacgg      180
tkaagtgcag gaagaggctg accacctcgc ggtccaccag gatgcccgac tgtgcgggac      240
ctgcagcgaa actcctcgat ggtcatgagc gggaagcgaa tgaggcccag ggccttgccc      300
agaaccttcc gcctgttctc tggcgtcacc tgcagctgct gccgctgaca ctcggcctcg      360
gaccagcgga caaacggcrt tgaacagccg cacctcacgg atgcccagtg tgtcgcgctc      420
caggammgsc accagcgtgt ccaggtcaat gtcggtgaag ccctccgcgg gtrattggcgt      480
ctgcagtgtt tttgtcgatg ttctccaggc acaggctggc cagctgcggg tcatcgaaga      540
gtcgcgcctg cgtgagcagc atgaaggcgt tgtcggctcg cagttcttct tcaggaactc      600
cacgcaat
  
```

<210> 194
 <211> 392
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

<400> 194

gaacggctgg	accttgccctc	gcattgtgct	tgctggcagg	gaataccttg	gcaagcagyt	60
ccagtccgag	cagccccaga	ccgctgccgc	ccgaagctaa	gcctgcctct	ggccttcccc	120
tccgcctcaa	tgcagaacca	gtagtgggag	cactgtgttt	agagttaaga	gtgaacactg	180
tttgatttta	cttggaatt	tcctctgtta	tatagctttt	cccaatgcta	atttccaaac	240
aacaacaaca	aaataacatg	tttgccctgtt	aagttgtata	aaagtaggtg	attctgtatt	300
taaagaaaat	attactgtta	catatactgc	ttgcaatttc	tgtattttatt	gktnctstgg	360
aaataaatat	agttattaaa	ggttgtcant	cc			392

<210> 195

<211> 502

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 195

ccsttkgagg	ggtkaggkyc	cagttyccga	gtggaagaaa	caggccagga	gaagtgcgtg	60
ccgagctgag	gcagatgttc	ccacagtgc	ccccagagcc	stgggstata	gtytctgacc	120
cctcncaagg	aaagaccacs	ttctggggac	atgggctgga	gggcaggacc	tagaggcacc	180
aagggaaggc	ccattccgg	ggstgttccc	cgaggaggaa	gggaaggggc	tctgtgtgcc	240
ccccasgagg	aagaggccct	gagtcctggg	atcagacacc	ccttcacgtg	tatccccaca	300
caaatgcaag	ctcaccaagg	tccccctctca	gtcccccttc	stacaccctg	amcggccact	360
gscscacacc	caccagagc	acgccacccg	ccatggggar	tgtgctcaag	gartcgcnng	420
gcarcgtgga	catctngtcc	cagaaggggg	cagaatctcc	aatagangga	ctgarcmstt	480
gctnanaaaa	aaaaanaaaa	aa				502

<210> 196

<211> 665

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(665)

<223> n = A,T,C or G

<400> 196

ggttacttgg	tttcattgcc	accacttagt	ggatgtcatt	tagaaccatt	ttgtctgctc	60
cctctggaag	ccttgccgag	agcggacttt	gtaattgttg	gagaataact	gctgaatttt	120
wagctgtttk	gagttgatts	gcaccactgc	accacaaact	tcaatatgaa	aacyawttga	180
actwatthtt	tatcttgatg	aaagtataac	aatgaaaatt	ttgttcatac	tgtattkac	240
aagtatgatg	aaaagcaawa	gatatatatt	cttttattat	gttaaattat	gattgccatt	300
attaatcggc	aaaatgtgga	gtgtatgttc	ttttcacagt	aatatatgcc	ttttgtaact	360
tcacttggtt	attttattgt	aaatgartta	caaaaattctt	aatttaagar	aatggatgt	420
watattttatt	tcattaattt	ctttcctkgt	ttacgtwaat	tttgaaaaga	wtgcatgatt	480
tottgacaga	aatcgatctt	gatgctgtgg	aagtagtttg	accacatcc	ctatgagttt	540
ttcttagaat	gtataaaggt	tgtagcccat	cnaacttcaa	agaaaaaaat	gaccacatac	600
tttgcaatca	ggctgaaatg	tggcatgctn	ttctaattcc	aactttataa	actagcaaan	660
aagtg						665

<210> 197
 <211> 492
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(492)
 <223> n = A,T,C or G

<400> 197

tttntttttt	ttttttttgc	aggaaggatt	ccatttattg	tggatgcatt	ttcacaatat	60
atgttttattg	gagcgatcca	ttatcagtga	aaagtatcaa	gtgtttataa	natttttagg	120
aaggcagatt	cacagaacat	gctngtcngc	ttgcagtttt	acctcgta	gatnacagag	180
aattatagtc	naaccagtaa	acnaggaatt	tacttttcaa	aagattaaat	ccaaactgaa	240
caaaattcta	ccctgaaact	tactccatcc	aaatattgga	ataanagtca	gcagtgatac	300
attctcttct	gaactttaga	ttttctagaa	aaatatgtaa	tagtgatcag	gaagagctct	360
tgttcaaaag	tacaacnaag	caatgttccc	ttaccatagg	ccttaattca	aactttgatc	420
catttcactc	ccatcacggg	agtcaatgct	acctgggaca	cttgtatttt	gttcatnctg	480
ancntggctt	aa					492

<210> 198
 <211> 478
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(478)
 <223> n = A,T,C or G

<400> 198

tttnttttgn	atttcantct	gtannaanta	ttttcattat	gtttattana	aaaatatnaa	60
tgtntccaen	acaaatcatn	ttacntnagt	aagaggccan	ctacattgta	caacatacac	120
tgagtatatt	ttgaaaagga	caagttttaa	gtanacncat	attgccganc	atancacatt	180
tatacatggc	ttgattgata	tttagcacag	canaaactga	gtgagttacc	agaaanaaat	240
natatatgtc	aatcngatit	aagatacaaa	acagatccta	tggtacatan	catcntgtag	300
gagttgtggc	tttatgttta	ctgaaagtca	atgcagttcc	tgtacaaaga	gatggccgta	360
agcattctag	tacctctact	ccatgggttaa	gaatcgta	cttatgttta	catatgtnta	420
gggtaagaat	tgtgttaagt	naanttatgg	agaggtccan	gagaaaaatt	tgatncaa	478

<210> 199
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 199

agtgacttgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
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tgctagttcc tgtcatctat tgcctactaa atgcagactg gagggggacca aaaaggggca 120
tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga 180
agtgattcag tttcctctac ggatgagaga ctggctcaag aatatectca tgcagcttta 240
tgaagccnac tctgaacacg ctggttatct nagatgagaa ncagagaaat aaagtcnaga 300
aaatttacct ggangaaaag aggctttngg ctggggacca tcccattgaa ccttctctta 360
anggacttta agaanaaact accacatgtn tgtngtatcc tgggtgccngg ccgtttantg 420
aacntngacn ncacccttnt ggaatanant cttgacngcn tcctgaactt gctcctctgc 480
ga 482

```

```

<210> 200
<211> 270
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

```

```

<400> 200
cggccgcaag tgcaactcca gctggggccg tgcggacgaa gattctgcca gcagttggtc 60
cgactgcgac gacggcggcg gcgacagtcg caggtgcagc gcggggcgct ggggtcttgc 120
aaggctgagc tgacgccgca gaggtcgtgt cacgtcccac gaccttgacg ccgtcgggga 180
cagccggaac agagcccgtt gaangcggga ggcctcgggg agcccctcgg gaaggcgcg 240
ccgagagata cgcaggtgca ggtggccg 270

```

```

<210> 201
<211> 419
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(419)
<223> n = A,T,C or G

```

```

<400> 201
tttttttttt ttttggaaac tactgcgagc acagcaggtc agcaacaagt ttattttgca 60
gctagcaagg taacagggtg gggcatggtt acatgttcag gtcaacttcc tttgtcgtgg 120
ttgattgggt tgtctttatg ggggcggggg ggggtagggg aaancgaagc anaantaaca 180
tgagagtggg gcaccctccc tgtagaacct gggtacnaaa gcttggggca gttcacctgg 240
tctgtgaccg tcatttttct gacatcaatg ttattagaag tcaggatata ttttagagag 300
tocactgtnt ctggaggagg attagggttt cttgccanaa tccaancaa atccacntga 360
aaaagttgga tgatncangt acngaatacc ganggcatan ttctcatant cggtggcca 419

```

```

<210> 202
<211> 509
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(509)
<223> n = A,T,C or G

```


ttttttttnt	tttttttttt	tttttntct	ttcttttttt	ttganaatga	ggatcgagtt	60
tttctactct	tagatagggc	atgaagaaaa	ctcatctttc	cagctttaaa	ataacaatca	120
aatctcttat	gctatatcat	attttaagtt	aaactaatga	gtcactggct	tatcttctcc	180
tgaaggaaat	ctgttcattc	ttctcattca	tatagttata	tcaagtacta	ccttgcatat	240
tgagaggttt	ttcttctcta	tttacacata	tatttccatg	tgaatttgta	tcaaaccttt	300
attttcatgc	aaactagaaa	ataatgtntt	cttttgcata	agagaagaga	acaatatnag	360
cattacaaaa	ctgctcaaat	tgtttgtaa	gnttatccat	tataattagt	tnggcaggag	420
ctaatacaaa	tcacatttac	ngacnagcaa	taataaaaact	gaagtaccag	ttaaatatcc	480
aaaataatta	aaggaacatt	tttagcctgg	gtataattag	ctaattcact	ttacaagcat	540

ttattnagaa tgaattcaca tggtattatt ccntagccca acacaatgg

589

<210> 205
 <211> 545
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(545)
 <223> n = A,T,C or G

<400> 205

ttttnttttt	ttttttcagt	aataatcaga	acaatattta	tttttatatt	taaaattcat	60
agaaaagtgc	cttacattta	ataaaaagttt	gtttctcaaa	gtgatcagag	gaattagata	120
tngtcttgaa	caccaatatt	aatttgagga	aaatacacca	aaatacatta	agtaaattat	180
ttaagatcat	agagcttgta	agtgaaga	taaaatttga	cctcagaaac	tctgagcatt	240
aaaaatccac	tattagcaaa	taaattacta	tggacttctt	gctttaattt	tgtgatgaat	300
atggggtgtc	actggtaaac	caacacattc	tgaaggatac	attacttagt	gatagattct	360
tatgtacttt	gctanatnac	gtggatatga	gttgacaagt	ttctctttct	tcaatctttt	420
aaggggcnga	ngaaatgagg	aagaaaagaa	aaggattacg	catactgttc	tttctatngg	480
aaggattaga	tatgtttcct	ttgccaatat	taaaaaata	ataatgttta	ctactagtga	540
aaccc						545

<210> 206
 <211> 487
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(487)
 <223> n = A,T,C or G

<400> 206

tttttttttt	tttttttagtc	aagtttctna	tttttattat	aattaaagtc	ttgggtcattt	60
catttattag	ctctgcaact	tacatattta	aattaaagaa	acgttnttag	acaactgtna	120
caatttataa	atgtaagggtg	ccattattga	gtanatatat	tcctccaaga	gtggatgtgt	180
cccttctccc	accaactaat	gaancagcaa	cattagttta	atttttattag	tagatnatac	240
actgctgcaa	acgctaattc	tcttctccat	ccccatgtng	atattgtgta	tatgtgtgag	300
ttggttnagaa	tgcatacanca	atctnacaat	caacagcaag	atgaagctag	gentgggctt	360
tcggtgaaaa	tagactgtgt	ctgtctgaat	caaatgatct	gacctatcct	cggtggcaag	420
aactcttcga	accgcttcct	caaaggcngc	tgccacattt	gtggcctctn	ttgcacttgt	480
ttcaaaa						487

<210> 207
 <211> 332
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

<400> 207

tgaattggct	aaaagactgc	atTTTTanaa	ctagcaactc	ttatttcttt	cctttaaaaa	60
tacatagcat	taaatcccaa	atcctattta	aagacctgac	agcttgagaa	ggtcactact	120
gcatttatag	gaccttctgg	tggttctgct	gttacntttg	aantctgaca	atccttgana	180
atctttgcat	gcagaggagg	taaaagggtat	tggattttca	cagaggaana	acacagcgca	240
gaaatgaagg	ggccaggctt	actgagcttg	tccactggag	ggctcatggg	tgggacatgg	300
aaaagaaggc	agcctaggcc	ctggggagcc	ca			332

<210> 208

<211> 524

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(524)

<223> n = A,T,C or G

<400> 208

agggcgtggt	gcgaggggcg	ttactgtttt	gtctcagtaa	caataaatac	aaaaagactg	60
gttgtgttcc	ggcccatcc	aaccacgaag	ttgatttctc	ttgtgtgcag	agtgactgat	120
tttaaaggac	atggagcttg	tcacaatgtc	acaatgtcac	agtgtgaagg	gcacactcac	180
tccgcgtga	ttcacattta	gcaaccaaca	atagctcatg	agtccatact	tgtaaatact	240
tttggcagaa	tacttnttga	aacttgcaga	tgataactaa	gatccaagat	atttcccaaa	300
gtaaatagaa	gtgggtcata	atattaatta	cctgttcaca	tcagcttcca	tttacaagtc	360
atgagccag	acactgacat	caaactaagc	ccacttagac	tcctcaccac	cagtctgtcc	420
tgatcatcaga	caggaggctg	tcaccttgac	caaattctca	ccagtcaatc	atctatccaa	480
aaaccattac	ctgatccact	tccggtaatg	caccaccttg	gtga		524

<210> 209

<211> 159

<212> DNA

<213> Homo sapien

<400> 209

gggtgaggaa	atccagagtt	gccatggaga	aaattccagt	gtcagcattc	ttgtctcttg	60
tggccctctc	ctacactctg	gccagagata	ccacagtcaa	acctggagcc	aaaaaggaca	120
caaaggactc	tcgacccaaa	ctgcccaga	ccctctcca			159

<210> 210

<211> 256

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(256)

<223> n = A,T,C or G

<400> 210

actccctggc	agacaaaggc	agaggagaga	gctctgttag	ttctgtgttg	ttgaactgcc	60
actgaatttc	tttccacttg	gactattaca	tgccanttga	gggactaatg	gaaaaacgta	120
tggggagatt	ttanccaatt	tangtntgta	aatggggaga	ctggggcagg	cgggagagat	180

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ttgcaggggtg naaatgggan ggctgggttg ttanatgaac agggacatag gaggtaggca 240
ccaggatgct aatca 256

```

```

<210> 211
<211> 264
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

```

```

<400> 211
acattgtttt tttgagataa agcattgaga gagctctcct taacgtgaca caatggaagg 60
actggaacac ataccacat cttgttctg agggataatt ttctgataaa gtcttgctgt 120
atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180
ggggagatac attcngaaag aggactgaaa gaaatactca agtnggaaaa cagaaaaaga 240
aaaaaaggag caaatgagaa gcct 264

```

```

<210> 212
<211> 328
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 212
acccaaaaat ccaatgctga atatttggt tcattattcc canattcttt gattgtcaaa 60
ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120
gtttatataat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccggcag 180
ttnaatttca ttccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta 240
cccctacnac tctttactct ctgganaggg ccagtgtgtg tagctataag cttggccaca 300
tttttttttc ctttattcct ttgtcaga 328

```

```

<210> 213
<211> 250
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 213
acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60
taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180
ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatata tctctnacct 240
tctcatcggt 250

```

<210> 214
 <211> 444
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = A,T,C or G

<400> 214
 acccagaatc caatgctgaa tatttggctt cattattccc agattctttg attgtcaaag 60
 gatttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg 120
 tttatatatg cagcaacaat attcaagcgc gacaacagggt tattgaactt gcccgccagt 180
 tgaatttcat tcccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac 240
 ccctacgact ctttactctc tggagagggc cagtgggtgg agctataagc ttggccacat 300
 ttttttttcc tttattcctt tgtcagagat gcgattcctc catatgctan aaaccaacag 360
 agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt 420
 actttgctct ccctaataata cctc 444

<210> 215
 <211> 366
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(366)
 <223> n = A,T,C or G

<400> 215
 acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt 60
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
 cattatgcca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt 180
 ttcaatatatt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240
 tctcatcggt aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300
 tccaagctgt tttctacact gtaaccagggt ttccaaccaa ggtggaaata tcctataact 360
 ggtgcc 366

<210> 216
 <211> 260
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(260)
 <223> n = A,T,C or G

<400> 216
 ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgct 60
 caagacaggg gctaaggag ggtctccaca ctgctnntaa ggcctnttnc atttttttat 120
 taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttataa 180

atcaaaaatt tccrnaagtt ntcaagctat catatataact ntatcctgaa aaagcaacat 240
aattcttctt tccctccttt 260

<210> 217
<211> 262
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 217
acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60
tcttgccctat aattttctat tttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120
ggcattctac agttttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180
atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240
atatccttca tgcttgtaaa gt 262

<210> 218
<211> 205
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(205)
<223> n = A,T,C or G

<400> 218
accaaggtgg tgcattaccg gaantggatc aangacacca tcgtggccaa cccctgagca 60
cccctatcaa ctcccttttg tagtaaaactt ggaaccttgg aaatgaccag gccaaagactc 120
aggcctcccc agttctactg acctttgtcc ttangtntna ngtcagggt tgctaggaaa 180
anaaatcagc agacacaggt gtaaa 205

<210> 219
<211> 114
<212> DNA
<213> Homo sapien

<400> 219
tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60
accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220
<211> 93
<212> DNA
<213> Homo sapien

<400> 220
actagccagc acaaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60
aaataagcat ttagtgctca gtccctactg agt 93

<210> 221
 <211> 167
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(167)
 <223> n = A,T,C or G

<400> 221
 actangtgca ggtgcgcaca aatatttgtc gatattccct tcattcttga ttccatgagg 60
 tcttttgccc agcctgtggc tctactgtag taagtctctg ctgatgagga gccagnatgc 120
 ccccaactac ctccctgac gtcgccana aatcacccaa cctctgt 167

<210> 222
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 222
 agggcgtggt ggggagggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60
 gttcttcacc tgtcccccaa tccttaaaag gccatactgc ataaagtcaa caacagataa 120
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180
 tttctcttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240
 taggtgagca tgattagaga gcttgtaggt tgcttttaca tatatctggc atatttgagt 300
 ctctgatcaa aacaatagat tggtaaagggt ggtattattg tattgataag t 351

<210> 223
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 223
 aaaacaaaca aacaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60
 tggttaattat ggtcaattta atwrtrttkt ggggcatttc cttacattgt cttgacaaga 120
 ttaaaatgtc tgtgccaaaa ttttgtattt tttttggaga cttcttatca aaagtaatgc 180
 tgccaaagga agtctaagga attagtagtg ttcccmtcac ttgtttggag tgtgctattc 240
 taaaagattt tgatttcctg gaatgacaat tatattttta ctttgggtggg ggaaanagtt 300
 ataggaccac agtccttact tctgatactt gtaaattaat cttttattgc acttgttttg 360
 accattaagc tatatgttta aaa 383

<210> 224
 <211> 320
 <212> DNA
 <213> Homo sapien

<400> 224
 cccctgaagg cttcttggtta gaaaatagta cagttacaac caataggaac aacaaaaaga 60

aaaagtttgt	gacattgtag	tagggagtgt	gtacccctta	ctcccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggcaat	attttatcat	atgttctaaa	agagaaggaa	180
gagaaaatac	tactttctcr	aaatggaagc	ccttaaagggt	gctttgatac	tgaaggacac	240
aaatgtggcc	gtccatcctc	ctttaragtt	gcatgacttg	gacacggtaa	ctgttgacgt	300
tttaractcm	gcattgtgac					320

<210> 225

<211> 1214

<212> DNA

<213> Homo sapien

<400> 225

gaggactgca	gcccgcactc	gcagccctgg	caggcggcac	tggtcatgga	aaacgaattg	60
ttctgctcgg	gcgctcctgg	gcatccgcag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatggtgg	aggccagcct	ctccgtacgg	cacccagagt	acaacagacc	cttgctcgct	240
aacgacctca	tgctcatcaa	gttggaagaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	gcctcgtttc	tggtggtggg	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	ggtggtgtct	420
gaggaggtct	gcagtaagct	ctatgaccgg	ctgtaccacc	ccagcatgtt	ctgcgccggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	gggggcccct	gatctgcaac	540
gggtacttgc	agggccttgt	gtctttcgga	aaagccccgt	gtggccaagt	tggtgtgcca	600
ggtgtctaca	ccaaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatatc	tgttcccgag	ccctcctccc	tcaggcccag	gagtccaggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccccctct	ccctcagacc	caggagtcca	840
gacccccag	cccctcctcc	ctcagaccca	ggagtccagc	ccctcctccc	tcagacccag	900
gagtcagac	ccccagcccc	ctcctccctc	agacccaggg	gtccaggccc	ccaacccctc	960
ctccctcaga	ctcagaggtc	caagccccca	acccctcctt	ccccagaccc	agaggtccag	1020
gtcccagccc	ctcctccctc	agacccagcg	gtccaatgcc	acctagactc	tcctgttaca	1080
cagtgcctcc	ttgtggcaag	ttgacccaac	cttaccagtt	ggtttttcat	ttttgtccc	1140
tttcccttag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226

<211> 119

<212> DNA

<213> Homo sapien

<400> 226

acccagtatg	tgcagggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227

<211> 818

<212> DNA

<213> Homo sapien

<400> 227

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggctctccc	ccagccctga	60
tttttgctac	atatggggtc	cottttcatt	ctttgcaaaa	acactgggtt	ttctgagaac	120
acggacgggt	cttagcacia	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcctc	ctctggagga	aagggtggtg	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300

gcttgtcccc	ttccaatcag	ccactttctga	gaacccccat	ctaacttcct	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaagggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcggt	tccagagaca	480
acctgctggc	tgtcttggga	tgcgccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600
gacaggctct	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccactttc	agggttttcag	cctagatggg	agtcgtgt			818

<210> 228

<211> 744

<212> DNA

<213> Homo sapien

<400> 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaaga	gcctcctcct	tggagatgg	aagaccgtgt	120
tctgtggcga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgctcgggtg	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggcctt	cgggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacggtg	ttggccaact	ccttctaaaa	cacaggcgcc	ctcctggtga	cagtgacccg	540
ccgtgggtat	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttgggggttg	600
ttcttttctg	taatgttctt	ctgtgttgtc	agctgtcttc	atttctggg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttcactctg	aagtagctgg	tgggt				744

<210> 229

<211> 300

<212> DNA

<213> Homo sapien

<400> 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaagggtgg	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacacag	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctatttttcc	acctgcagag	gatccagtct	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<210> 230

<211> 301

<212> DNA

<213> Homo sapien

<400> 230

cagcagaaca	aatacaaaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcctggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cgggaaggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

<210> 231
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 231

gcaagcacgc	tggtcaaatct	ctgtcagggtc	agctccagag	aagccattag	tcatttttagc	60
caggaaactcc	aagtccacat	ccttggtcaac	tggggacttg	cgagggttag	ccttgaggat	120
ggcaacacgg	gactttctcat	caggaagtgg	gatgtagatg	agctgatcaa	gacggccagg	180
tctgaggatg	gcaggatcaa	tgatgtcagg	ccggttggtg	ccgccaatga	tgaacacatt	240
tttttttgtg	gacatgccat	ccattttctgt	caggatctgg	ttgatgactc	ggtcagcagc	300
c						301

<210> 232
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 232

agtaggtatt	tcgtgagaag	ttcaacacca	aaactggaac	atagttctcc	ttcaagtgtt	60
ggcgacagcg	gggcttcctg	attctggaat	ataactttgt	gtaaattaac	agccacctat	120
agaagagtcc	atctgctgtg	aaggagagac	agagaactct	gggttccgtc	gtcctgtcca	180
cgtgctgtac	caagtgtctg	tgccagcctg	ttacctgttc	tactgaaaa	tctggctaata	240
gctcttgtgt	atcacttctg	attctgacaa	tcaatcaatc	aatggcctag	agcactgact	300
g						301

<210> 233
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 233

atgactgact	tcccagtaag	gctctctaag	gggtaagtag	gaggatccac	aggatttgag	60
atgctaaggc	cccagagatc	gtttgatcca	accctcttat	tttcagaggg	gaaaatgggg	120
cctagaagtt	acagagcatc	tagctggtgc	gctggcacc	ctggcctcac	acagactccc	180
gagtagctgg	gactacaggc	acacagtcac	tgaagcaggc	cctgttagca	attctatgcg	240
tacaaattaa	catgagatga	gtagagactt	tattgagaaa	gcaagagaaa	atcctatcaa	300
c						301

<210> 234
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 234

aggctctaca	catcgagact	catccatgat	tgatatgaat	ttaaaaatta	caagcaaaga	60
cattttattc	atcatgatgc	tttcttttgt	ttcttctttt	cgttttcttc	tttttctttt	120
tcaatttcag	caacatactt	ctcaatttct	tcaggattta	aaatcttgag	ggattgatct	180
cgctcatga	cagcaagttc	aatgtttttg	ccacctgact	gaaccacttc	caggagtgcc	240
ttgatcacca	gcttaatggt	cagatcatct	gcttcaatgg	cttcgtcagt	atagttcttc	300
t						301

<210> 235

<211> 283
 <212> DNA
 <213> Homo sapien

<400> 235
 tggggctgtg catcaggcgg gtttgagaaa tattcaattc tcagcagaag ccagaatttg 60
 aattccctca tcttttaggg aatcatttac caggtttgga gaggattcag acagctcagg 120
 tgctttcact aatgtctctg aacttctgtc cctctttgtt catggatagt ccaataaata 180
 atgttatctt tgaactgatg ctcataaggag agaataaag aactctgagt gatatcaaca 240
 ttagggattc aaagaaatat tagatttaag ctcacactgg tca 283

<210> 236
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 236
 aggtcctcca ccaactgcct gaagcacggt taaaattggg aagaagtata gtgcagcata 60
 aatactttta aatcgatcag atttccctaa cccacatgca atcttcttca ccagaagagg 120
 tcggagcagc atcattaata ccaagcagaa tgcgtaatag ataaatacaa tggatatatag 180
 tgggtagacg gcttcatgag tacagtgtac tgtggtatcg taatctggac ttgggttgta 240
 aagcatcgtg taccagtcag aaagcatcaa tactcgacat gaacgaatat aaagaacacc 300
 a 301

<210> 237
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 237
 cagtggtagt ggtggtggac gtggcggttg tcgtggtgcc ttttttggtg ccggtcacaa 60
 actcaatttt tgttgcgtcc tttttggcct tttccaattt gtccatctca attttctggg 120
 ccttggtctaa tgctcatag taggagtcct cagaccagcc atggggatca aacatatact 180
 ttgggtagtt ggtgccaagc tcgtcaatgg cacagaatgg atcagcttct cgtaaatacta 240
 gggttccgaa attctttctt cctttggata atgtagttca tatccattcc ctccctttatc 300
 t 301

<210> 238
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 238
 gggcagggtt tttttttttt ttttttgatg gtgcagaccc ttgctttatt tgtctgactt 60
 gttcacagtt cagcccccctg ctcagaaaac caacgggcca gctaaggaga ggaggaggca 120
 ccttgagact tccggagtcg aggtcttcca ggggttccca gcccatcaat cattttctgc 180
 acccccctgcc tgggaagcag ctccctgggg ggtgggaatg ggtgactaga agggatttca 240
 gtgtgggacc cagggtctgt tcttcacagt aggaggtgga agggatgact aatttcttta 300
 t 301

<210> 239
 <211> 239
 <212> DNA
 <213> Homo sapien

```
<210> 240
<211> 300
<212> DNA
<213> Homo sapien
```

```
<210> 241
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 242
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 243
<211> 301
<212> DNA
<213> Homo sapien
```

<400> 243

aggtaagtcc	cagtttgaag	ctcaaaagat	ctggtatgag	catagggtca	tcgacgacat	60
ggtggcccaa	gctatgaaat	cagagggagg	cttcctctgg	gcctgtaaaa	actatgatgg	120
tgacgtgcag	tcggactctg	tggcccaagg	gtatggtctt	ctcggcatga	tgaccagcgt	180

```
<210> 244
<211> 300
<212> DNA
<213> Homo sapien
```

```
<210> 245
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 246
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 247
<211> 301
<212> DNA
<213> Homo sapien
```

<400> 247						
agggtcctttg	gcaggggtca	tggatcagag	ctcaaactgg	aggggaaaggc	atttcgggta	60
gcctaagagg	gcgactggcg	gcagcacaaac	caaggaaggc	aagggttgttt	ccccacgct	120
gtgtcctgtg	ttcaggtgcg	acacacaatc	ctcatgggaa	caggatcacc	catgcgctgc	180
ccttgatgat	caaggttggg	gcttaagtgg	attaagggag	gcaagttctg	ggttccttgc	240
cttttcaaac	catgaagtca	ggctctgtat	ccttcctttt	cctaactgat	attctaacta	300
a						301

<210> 248
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 248

```

aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact      60
attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttagaatt      120
acaggaagaa agtgggtttg aagacagcca aagaaataaa agcagattaa attgtatcag      180
gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag      240
ctaagagac  tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc      300
c                                                    301

```

<210> 249
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 249

```

gtccagagga agcacctggt gctgaactag gcttgccctg ctgtgaactt gcacttggag      60
ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgteccgccc      120
ccaggagagac acagcagtga ctacagagctg gtgcacacct gtgcctccct cctcaccgcc      180
catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag      240
actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt      300
a                                                    301

```

<210> 250
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 250

```

ggtctgtgac aaggacttgc aggtctgtggg aggcaagtga cccttaacac tacacttctc      60
cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc      120
cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac      180
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta      240
caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc      300
a                                                    301

```

<210> 251
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 251

```

gccgaggtcc tacatttggc ccagtttccc cctgcatacct ctccagggcc cctgcctcat      60
agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat      120
ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct      180
cattgggatc aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgaa      240
cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatacct      300
c                                                    301

```

<210> 252

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 252

gcaaccaatc	actctgtttc	acgtgacttt	tatcaccata	caatttgtgg	catttcctca	60
ttttctacat	tgtagaatca	agagtgtaaa	taaagtata	tcgatgtctt	caagaatata	120
tcatttcctt	ttcactagga	acccattcaa	aatataagtc	aagaatctta	atatcaacaa	180
atatatcaag	caaactggaa	ggcagaataa	ctaccataat	ttagtataag	tacccaaagt	240
tttataaatc	aaaagcccta	atgataacca	tttttagaat	tcaatcatca	ctgtagaatc	300
a						301

<210> 253
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 253

ttccctaaga	agatgttatt	ttgttggtt	ttgttcccc	tccatctoga	ttctcgtacc	60
caactaaaa	aaaaaataa	agaaaaaatg	tgctgcgttc	tgaaaaataa	ctccttagct	120
tggtctgatt	gttttcagac	cttaaaatat	aaacttgttt	cacaagcttt	aatccatgtg	180
gattttttt	cttagagaac	cacaaaacat	aaaaggagca	agtcggactg	aatacctgtt	240
tccatagtgc	ccacagggta	ttcctcacat	tttctccata	ggaaaatgct	ttttcccaag	300
g						301

<210> 254
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 254

cgctgcgcct	ttcccttggg	ggagggggcaa	ggccagaggg	ggtccaagtg	cagcacgagg	60
aacttgacca	attcccttga	agcgggtggg	ttaaaccctg	taaatgggaa	caaaatcccc	120
ccaaatctct	tcattctacc	ctggtggact	cctgactgta	gaattttttg	gttgaaacaa	180
gaaaaaata	aagcttttga	cttttcaagg	ttgcttaaca	ggtactgaaa	gactggcctc	240
acttaaaactg	agccaggaaa	agctgcagat	ttattaatgg	gtgtgttagt	gtgcagtgcc	300
t						301

<210> 255
 <211> 302
 <212> DNA
 <213> Homo sapien

<400> 255

agcttttttt	tttttttttt	tttttttttt	ttcattaaaa	aatagtgtct	tttattataa	60
attactgaaa	tgtttctttt	ctgaatataa	atataaatat	gtgcaaagtt	tgacttggtt	120
tgggattttg	ttgagttctt	caagcatctc	ctaataccct	caagggcctg	agtagggggg	180
aggaaaaagg	actggagggtg	gaatctttat	aaaaaacaag	agtgattgag	gcagattgta	240
aacattatta	aaaaacaaga	aacaaacaaa	aaaatagaga	aaaaaaccac	cccaacacac	300
aa						302

<210> 256
 <211> 301
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 256

gttccagaaa	acattgaagg	tggcttccca	aagtctaact	agggataccc	cctctagcct	60
aggaccctcc	tccccacacc	tcaatccacc	aaaccatcca	taatgcaccc	agataggccc	120
acccccaaaa	gcctggacac	cttgagcaca	cagttatgac	caggacagac	tcctctctat	180
aggcaaatag	ctgctggcaa	actggcatta	cctggtttgt	ggggatgggg	gggcaagtgt	240
gtggcctctc	ggcctggtta	gcaagaacat	tcagggtagg	cctaagttaa	tcgtgttagt	300
t						301

<210> 257

<211> 301

<212> DNA

<213> Homo sapien

<400> 257

gttgtggagg	aactctggct	tgctcattaa	gtcctactga	ttttcactat	cccctgaatt	60
tcccacttta	tttttgtctt	tcactatcgc	aggccttaga	agaggtctac	ctgcctccag	120
tcttacctag	tccagtctac	cccctggagt	tagaatggcc	atcctgaagt	gaaaagtaat	180
gtcacattac	tcccttcagt	gattttctgt	agaagtgcc	atccctgaat	gccaccaaga	240
tcttaattct	cacatcttta	atcttatctc	tttgactcct	ctttacaccg	gagaaggctc	300
c						301

<210> 258

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 258

cagcagtagt	agatgccgta	tgccagcacg	cccagcactc	ccaggatcag	caccagcacc	60
aggggcccag	ccaccaggcg	cagaagcaag	ataaacagta	ggctcaagac	cagagccacc	120
cccagggcaa	caagaatcca	ataccaggac	tgggcaaaat	cttcaaagat	cttaacactg	180
atgtctcggg	cattgaggct	gtcaataana	cgctgatccc	ctgctgtatg	gtggtgtcat	240
tggatgatcc	tgggagcgcc	ggtggagtaa	cgttggtcca	tggaaagcag	cgccacaac	300
t						301

<210> 259

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 259

tcatatatgc	aaacaaatgc	agactangcc	tcaggcagag	actaaaggac	atctcttggg	60
gtgtcctgaa	gtgatttgga	cccctgaggg	cagacaccta	agtaggaatc	ccagtgggaa	120
gcaaagccat	aaggaagccc	aggattcctt	gtgatcagga	agtgggccag	gaaggctctgt	180
tccagctcac	atctcatctg	catgcagcac	ggaccggatg	cgcccactgg	gtcttggctt	240
ccctcccatc	ttctcaagca	gtgtccttgt	tgagccattt	gcataccttg	ctccaggtgg	300
c						301

<210> 260

<211> 301

<212> DNA

<213> Homo sapien

<400> 260

ttttttttct	ccctaaggaa	aaagaaggaa	caagtctcat	aaaaccaa	aagcaatggt	60
aagggtgtctt	aacttgaaaa	agattaggag	tcactggttt	acaagttata	attgaatgaa	120
agaactgtaa	cagccacagt	tggccatttc	atgccaatgg	cagcaaaca	caggattaac	180
tagggcaaaa	taaataagt	tgtggaagcc	ctgataagt	cttaataaac	agactgattc	240
actgagacat	cagtacctgc	ccgggcggcc	gctcgagccg	aattctgcag	atatccatca	300
c						301

<210> 261

<211> 301

<212> DNA

<213> Homo sapien

<400> 261

aaatattoga	gcaaatcctg	taactaatgt	gtctccataa	aaggctttga	actcagtga	60
tctgcttoca	tccacgattc	tagcaatgac	ctctcggaca	tcaaagctcc	tcttaagggt	120
agcaccaact	attccataca	attcatcagc	aggaaataaa	ggctcttcag	aagggttcaat	180
ggtgacatcc	aatttcttct	gataatntag	attcctcaca	accttcctag	ttaagtgaag	240
ggcatgatga	tcattccaaag	cccagtgggc	acttactcca	gactttctgc	aatgaagatc	300
a						301

<210> 262

<211> 301

<212> DNA

<213> Homo sapien

<400> 262

gaggagagcc	tgttacagca	tttgaagca	cagaatactc	caggagtatt	tgtaattgtc	60
tgtgagcttc	ttgccgcaag	tctctcagaa	atttaaaaag	atgcaaatac	ctgagtcacc	120
cctagacttc	ctaaaccaga	tcctctgggg	ctggaacctg	gcactctgca	tttgaatga	180
gggctttctg	gtgcacacct	aattttgtgc	atctttgccc	taaatacctg	attagtgtcc	240
catcattacc	cccacattat	aatgggatag	attcagagca	gatactctcc	agcaaagaat	300
c						301

<210> 263

<211> 301

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 263

tttagcttgt	ggtaaagac	tcacaaaact	gattttaaaa	tcaagttaat	gtgaattttg	60
aaaattacta	cttaatccta	attcacaata	acaatggcat	taaggtttga	cttgagttgg	120
ttcttagtat	tatttatggg	aaataggctc	ttaccacttg	caaataactg	gccacatcat	180
taatgactga	cttcccagta	aggctctcta	aggggtaagt	angaggatcc	acaggatttg	240
agatgctaag	gccccagaga	tcgtttgatc	caacctctct	attttcagag	gggaaaatgg	300
g						301

<210> 264
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 264

aaagacgtta	aaccactcta	ctaccacttg	tggaactctc	aaagggtaaa	tgacaaascc	60
aatgaatgac	tctaaaaaca	atattttacat	ttaatggttt	gtagacaata	aaaaaacaag	120
gtggatagat	ctagaattgt	aacattttta	gaaaaccata	scatttgaca	gatgagaaa	180
ctcaattata	gatgcaaagt	tataactaaa	ctactatagt	agtaaagaaa	tacatttcac	240
acccttcata	taaattcact	atcttggtct	gaggcactcc	ataaaatgta	tcacgtgcat	300
a						301

<210> 265
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 265

tgcccaagtt	atgtgtaagt	gtatccgcac	ccagaggtaa	aactacactg	tcattctttgt	60
cttcttgtga	cgcagtattt	cttctctggg	gagaagccgg	gaagtcttct	cctggctcta	120
catattcttg	gaagtctcta	atcaactttt	gttccatttg	tttcatttct	tcaggagggg	180
ttttcagttt	gtcaacatgt	tctctaacaa	cacttgccca	tttctgtaaa	gaatccaaag	240
cagtccaagg	ctttgacatg	tcaacaacca	gcataactag	agtatccttc	agagatacgg	300
c						301

<210> 266
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 266

taccgtctgc	ccttcctccc	atccaggcca	tctgcgaatc	tacatgggtc	ctcctattcg	60
acaccagatc	actctttcct	ctaccacacag	gcttgctatg	agcaagagac	acaacctcct	120
ctcttctgtg	ttccagcttc	ttttcctgtt	cttcccaccc	cttaagttct	attcctgggg	180
atagagacac	caatacccat	aacctctctc	ctaagcctcc	ttataaccca	gggtgcacag	240
cacagactcc	tgacaactgg	taaggccaat	gaactgggag	ctcacagctg	gctgtgcctg	300
a						301

<210> 267
 <211> 301

<212> DNA

<213> Homo sapien

<400> 267

aaagagcaca	ggccagctca	gcctgccctg	gccatctaga	ctcagcctgg	ctccatgggg	60
gttctcagt	ctgagtccat	ccaggaaaag	ctcacctaga	ccttctgagg	ctgaatcttc	120
atcctcacag	gcagcttctg	agagcctgat	attcctagcc	ttgatggctc	ggagtaaagc	180
ctcattctga	ttcctctcct	tcttttcttt	caagttggct	ttcctcacat	ccctctgttc	240
aattcgcttc	agcttgtctg	ctttagccct	catttccaga	agcttcttct	ctttggcatc	300
t						301

<210> 268

<211> 301

<212> DNA

<213> Homo sapien

<400> 268

aatgtctcac	tcaactactt	cccagcctac	cgtggcctaa	ttctgggagt	tttcttctta	60
gatcttggga	gagctggttc	ttctaaggag	aaggaggaag	gacagatgta	actttggatc	120
tcgaagagga	agtctaattg	aagtaattag	tcaacggctc	ttgttttagac	tcttgggaata	180
tgctgggtgg	ctcagtgagc	ccttttggag	aaagcaagta	ttattcttaa	ggagtaacca	240
cttcccatgg	ttctactttc	taccatcatc	aattgtatat	tatgtattct	ttggagaact	300
a						301

<210> 269

<211> 301

<212> DNA

<213> Homo sapien

<400> 269

taacaatata	cactagctat	ctttttaact	gtccatcatt	agcaccaatg	aagattcaat	60
aaaattacct	ttattcacac	atctcaaaac	aattctgcaa	attcttagtg	aagtttaact	120
atagtcacag	acottaaata	ttcacattgt	tttctatgtc	tactgaaaat	aagttcacta	180
cttttctgga	tattctttac	aaaatcttat	taaaattcct	ggtattatca	cccccaatta	240
tacagtagca	caaccacctt	atgtagtttt	tacatgatag	ctctgtagaa	gtttcacatc	300
t						301

<210> 270

<211> 301

<212> DNA

<213> Homo sapien

<400> 270

cattgaagag	cttttgcgaa	acatcagaac	acaagtgcct	ataaaattaa	ttaagcctta	60
cacaagaata	catattcctt	ttatttctaa	ggagttaaac	atagatgtag	ctgatgtgga	120
gagcttgctg	gtgcagtgca	tattggataa	cactattcat	ggccgaattg	atcaagtcaa	180
ccaactcctt	gaactggatc	atcagaagaa	gggtgggtgca	cgatatactg	cactagataa	240
tggaccaacc	aactaaattc	tctcaccagg	ctgtatcagt	aaactggctt	aacagaaaac	300
a						301

<210> 271

<211> 301

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 271
 aaaaggttct cataagatta acaatttaaa taaatatttg atagaacatt ctttctcatt 60
 ttatagctc atcttttagg ttgatattca gttcatgctt cccttgctgt tcttgatcca 120
 gaattgcaat cacttcatca gcctgtattc gctccaatto tctataaagt gggccaagg 180
 tgaaccacag agccacagca cacctctttc ccttggtgac tgccttcacc ccatganggt 240
 tctctcctcc agatganaac tgatcatgcg cccacatatt gggttttata gaagcagtc 300
 c 301

<210> 272
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 272
 taaattgcta agccacagat aacaccaatc aaatggaaca aatcactgtc ttcaaagtgc 60
 ttatcagaaa accaaatgag cctggaatct tcataatacc taaacatgcc gtatttagga 120
 tccaataatt cctcatgat gagcaagaaa aattctttgc gcacccctcc tgcattcaca 180
 gcatcttctc caacaaatat aaccttgagt ggcttcttgc aatctatgtt ctttggtttc 240
 ctaaggactt ccattgcatt tcctacaata ttttctctac gcaccactag aattaagcag 300
 g 301

<210> 273
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 273
 acatgtgtgt atgtgtatct ttgggaaaa aanaagacat cttgtttayt atttttttgg 60
 agagangctg ggacatggat aatcacwtaa tttgtayta tyactttaat ctgactygaa 120
 gaaccgtcta aaaataaaat ttaccatgtc dtatattcct tatagtatgc ttatttcacc 180
 ttytttctgt ccagagagag tatcagtgac ananatttma ggggaamac atgmattggt 240
 gggacttnty tttacngagm accctgcccg sgcccccctcg makcngantt ccgcsananc 300
 t 301

<210> 274
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

tttgttgatg	tcagtattht	attacttgcg	ttatgagtgc	tcacctggga	aattctaaag	60
atacagagga	cttgaggaa	gcagagcaac	tgaatttaat	ttaaaagaag	gaaaacattg	120
gaatcatggc	actcctgata	ctttcccaaa	tcaacactct	caatgcccc	ccctcgctct	180

caccatagtg gggagactaa agtggccacg gatttgcctt angtgtgcag tgcgttctga 240
gttcnctgtc gattacatct gaccagtctc ctttttccga agtccttccg ttcaatcttg 300
c 301

<210> 278
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 278
taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60
aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120
cagtctctac tgttattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180
aatgaacatc tcatgtgtgc tcacaatgtt ctggcactat tataagtgtc tcacaggttt 240
tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300
c 301

<210> 279
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 279
aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60
gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120
ttagaccttt accttccagc caccacacag tgcttgatat ttcagagtca gtcattgggt 180
atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240
catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300
a 301

<210> 280
<211> 301
<212> DNA
<213> Homo sapien

<400> 280
ggtactggag ttttctctcc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60
tagaaagggt gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct 120
tgagaaaaaa acctaaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180
gtttgatata gtttaggggt ggggttagat taagatctaa attacatcag gacaaagaga 240
cagactatta actccacagt taattaagga ggtatgttcc atgtttatth gttaaagcag 300
t 301

<210> 281

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 281
 aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc 60
 gccgagcaat ccaaattcctg aatgaagggg catcttctga aaaaggagat ctgaatctca 120
 atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa 180
 tgtgtagcac actgcgatta cagctaaata acccgatatt gtgtgtcatg tttgcatttc 240
 tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagt gcagtacctc 300
 g 301

<210> 282
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 282
 caggtactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca 60
 tccagaaccc aaaaattaaag aaattcaaaa agacattttg tgggcacctg ctagcacaga 120
 agcgagaaag caaagcccag gcagaaccat gctaacctta cagctcagcc tgcacagaag 180
 cgcagaagca aagcccaggc agaaccatgc taaccttaca gctcagcctg cacagaagcg 240
 cagaagcaaa gcccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag 300
 a 301

<210> 283
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 283
 atctgtatac ggcagacaaa ctttatarag tgtagagagg tgagcgaaag gatgcaaaag 60
 cactttgagg gctttataat aatatgtgct ttgaaaaaaa aaatgtgtag ttgatactca 120
 gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc 180
 acttcccagg ttttatgcaa aaattttgtt aaattctata atggtgatat gcattcttta 240
 ggaaacatat acatttttaa aaatctattt tatgtaagaa ctgacagacg aatttgcttt 300
 g 301

<210> 284
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 284
 caggtacaaa acgctattaa gtggcttaga atttgaacat ttgtggtctt tattttacttt 60
 gcttcgtgtg tgggcaaagc aacatcttcc cttaaataat attaccaaga aaagcaagaa 120
 gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat 180
 ggtgagaggc aaggcatgag agggcaagt ttgtgtggac agatctgtgc ctactttatt 240
 actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt 300
 a 301

<210> 285
 <211> 301
 <212> DNA

TC6000053460

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 285

acatcaccat	gacgcatcc	cccacccatt	atacgttgta	tgtttacata	aatactcttc	60
aatgatcatt	agtgttttaa	aaaaaatact	gaaaactcct	tctgcatccc	aatctctaac	120
caggaaagca	aatgctatct	acagacctgc	aagccctccc	tcaaacnaaa	ctatttctgg	180
attaaatatg	tctgacttct	tttgagggtca	cacgactagg	caaattgctat	ttacgatctg	240
caaaagctgt	ttgaagagtc	aaagccccc	tgtgaacacg	atttctggac	cctgtaacag	300
t						301

<210> 286

<211> 301

<212> DNA

<213> Homo sapien

<400> 286

taccactgca	ttccagcctg	ggtgacagag	tgagactccg	tctccaaaaa	aaactttgct	60
tgtatattat	ttttgcctta	cagtggatca	ttctagtagg	aaaggacagt	aagatttttt	120
atcaaaatgt	gtcatgccag	taagagatgt	tatatctttt	tctcatttct	tccccaccca	180
aaaataagct	accatatagc	ttataagtct	caaatttttg	ccttttacta	aaatgtgatt	240
gtttctgttc	attgtgtatg	cttcatcacc	tatattaggc	aaattccatt	ttttcccttg	300
t						301

<210> 287

<211> 301

<212> DNA

<213> Homo sapien

<400> 287

tacagatctg	ggaactaaat	attaaaaaat	agtgtggctg	gatatatgga	gaatgttggg	60
cccagaagga	acgtagagat	cagatattac	aacagctttg	ttttgagggt	tagaaatatg	120
aaatgatttg	gttatgaacg	cacagttagg	gcagcagggc	cagaatcctg	accctctgcc	180
ccgtgggttat	ctcctcccca	gcttggctgc	ctcatgttat	cacagtattc	cattttgttt	240
gttgcattgc	ttgtgaagcc	atcaagattt	tctcgtctgt	tttcctctca	ttggtaaatgc	300
t						301

<210> 288

<211> 301

<212> DNA

<213> Homo sapien

<400> 288

gtacaccta	ctgcaaggac	agctgaggaa	tgtaatgggc	agccgctttt	aaagaagtag	60
agtcaatagg	aagacaaatt	ccagttccag	ctcagctctg	gtatctgcaa	agctgcaaaa	120
gatcttttaa	gacaatttca	agagaatatt	tccttaaagt	tggcaatttg	gagatcatac	180
aaaagcatct	gcttttgtga	tttaatttag	ctcatctggc	cactggaaga	atccaaacag	240
tctgccttaa	ttttggatga	atgcatgatg	gaaattcaat	aatttagaaa	gttaaaaaaa	300
a						301

<210> 289
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 289
 ggtacactgt ttccatgta tgtttctaca cattgctacc tcagtgtcc tggaaactta 60
 gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg 120
 ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180
 cgttctataa atgaatgtgc tgaagcaaag tgcccatggt ggcggcgaan aagagaaaga 240
 tgtgttttgt tttggactct ctgtgtccc ttccaatgct gtgggtttcc aaccagngga 300
 a 301

<210> 290
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 290
 aactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60
 tgactgatct gttcatttct ctcacagctc ttacccocaa aagcttttcc accctaagtg 120
 ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180
 gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240
 tgccttgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagtgag 300
 a 301

<210> 291
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 291
 caggtaccaa tttcttctat cctagaaaca tttcatttta tgttgttgaa acataacaac 60
 tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120
 tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat 180
 agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa 240
 acatgagctt cacttcccca ctaactaatt agcatctgtt atttcttaac cgtaatgcct 300
 a 301

<210> 292
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 292

accttttagt	agtaatgtct	aataataaat	aagaaatcaa	ttttataagg	tccatatagc	60
tgtattaaat	aatttttaag	tttaaaagat	aaaataoccat	catttttaa	gttggtattc	120
aaaaccaaag	natataaccg	aaaggaaaaa	cagatgagac	ataaaatgat	ttgcnagatg	180
ggaaatatag	tasttyatga	atgttnatta	aattccagtt	ataatagtgg	ctacacactc	240
tcactacaca	cacagacccc	acagtcctat	atgccacaaa	cacatttcca	taacttgaaa	300
a						301

<210> 293
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 293

ggtaccaagt	gctgggtgcc	gcctgttacc	tgttctcact	gaaaagtctg	gctaattgctc	60
ttgtgtagtc	acttctgatt	ctgacaatca	atcaatcaat	ggcctagagc	actgactgtt	120
aacacaaaacg	tcactagcaa	agtagcaaca	gctttaagtc	taaatacaaa	gctgttctgt	180
gtgagaattt	tttaaaaggc	tacttgtata	ataacccttg	tcatttttaa	tgtacctcgg	240
ccgcgaccac	gctaagccga	attctgcaga	tatccatcac	actgggggcc	gctcgagcat	300
g						301

<210> 294
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 294

tgaccataa	caatatacac	tagctatctt	tttaactgtc	catcattagc	accaatgaag	60
attcaataaa	attaccttta	ttcacacatc	tcaaaacaat	tctgcaaatt	cttagtgaag	120
tttaactata	gtcacaganc	ttaaataatc	acattgtttt	ctatgtctac	tgaaaataag	180
ttcactactt	ttctgggata	ttcttttaca	aatcttatta	aaattcctgg	tattatcacc	240
cccaattata	cagtagcaca	accaccttat	gtagttttta	catgatagct	ctgtagaggt	300
t						301

<210> 295
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 295

gtactctttc	tctccctccc	tctgaattta	attctttcaa	cttgcaattt	gcaaggatta	60
cacatttcac	tgtgatgtat	attgtgttgc	aaaaaaaaa	gtgtctttgt	ttaaaattac	120
ttggtttgtg	aatccatctt	gctttttccc	cattggaact	agtcattaac	ccatctctga	180
actggtlagaa	aaacrtctga	agagctagtc	tatcagcatc	tgacaggtga	attggatggt	240

```
<210> 296
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 297
<211> 300
<212> DNA
<213> Homo sapien
```

```
<210> 298
<211> 301
<212> DNA
<213> Homo sapien
```

<210>	299
<211>	301
<212>	DNA

<213> Homo sapien

<400> 299

```
gttttgagac ggagttttcac tcttggtgcc cagactggac tgcaatggca ggggtctctgc    60
tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc    120
tggtgattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg    180
gagtttcgcc atgttggcca gctgggtctca aactcctgac ctcaagcgac ctgcctgcct    240
cggcctccca aagtgtctgga attataggca tgagtcaaca cgcccagcct aaagatattt    300
t                                                                    301
```

<210> 300

<211> 301

<212> DNA

<213> Homo sapien

<400> 300

```
attcagtttt atttgctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga    60
tatgtccac acccaactggg aaaggctccc acctggctac ttctctatc agctgggtca    120
gctgcattcc acaaggttct cagcctaatt agtttacta cctgccagtc tcaaaactta    180
gtaaagcaag accatgacat tccccacgg aaatcagagt ttgccccacc gtcttggtac    240
tataaagcct gcctctaaca gtccttgctt cttcacacca atcccagcgc catcccccat    300
g                                                                    301
```

<210> 301

<211> 301

<212> DNA

<213> Homo sapien

<400> 301

```
ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc    60
agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt    120
gggaactcac aaagaccctc agagctgaga caccacaaac agtgggagct cacaaagacc    180
ctcagagctg agacaccac aacagtggga gtcacaaaag accctcagag ctgagacacc    240
cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt    300
t                                                                    301
```

<210> 302

<211> 301

<212> DNA

<213> Homo sapien

<400> 302

```
aggtacacat ttagcttgtg gtaaagtact cacaaaactg attttaaaat caagttaatg    60
tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac    120
ttgagttggt tcttagtatt atttatggta aataggctct taccacttgc aaataactgg    180
ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca    240
caggatttga gatgctaagg ccccagagat cgtttgatcc aaccctctta ttttcagagg    300
g                                                                    301
```

<210> 303

<211> 301

<212> DNA

<213> Homo sapien

<400> 303

```

aggtaccaac tgtggaaata ggtagaggat ctttttttct ttccatatca actaagttgt      60
atattgtttt ttgacagttt aacacatctt cttctgtcag agattctttc acaatagcac      120
tggctaattg aactaccgct tgcattgtta aaatggtggt ttgtgaaatg atcataggcc      180
agtaacgggt atgtttttct aactgatctt ttgctcgttc caaagggacc tcaagacttc      240
catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac      300
c                                          301

```

<210> 304

<211> 301

<212> DNA

<213> Homo sapien

<400> 304

```

acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt      60
tattagtttc agtttcagct taccacacttt ttgtctgcaa catgcaraas agacagtgcc      120
cttttttagtg tatcatatca ggaatcatct cacattgggt tgtgccatta ctggtgcagt      180
gactttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga      240
ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatataatct      300
c                                          301

```

<210> 305

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 305

```

gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag      60
caggggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggcg      120
taaaggagga gaaacagata caaatctcc aactcagtat taaggatttc tcatgcctag      180
aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa      240
ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag      300
a                                          301

```

<210> 306

<211> 8

<212> PRT

<213> Homo sapien

<400> 306

```

Val Leu Gly Trp Val Ala Glu Leu
1           5

```

<210> 307

<211> 637

<212> DNA

<213> Homo sapien

<400> 307

```

acaggggatg aagggaaagg gagaggatga ggaagcccc ctggggattt ggtttgggcc 60
ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa atagggggcac 120
attgaggaat gatacttgag cccaaagagc attcaatcat tgttttattt gccttmtttt 180
cacaccattg gtgagggagg gattaccacc ctgggggttat gaagatgggtt gaacacccca 240
cacatagcac cggagatatg agatcaacag tttcttagcc atagagattc acagcccaga 300
gcaggaggac gcttgcacac catgcaggat gacatggggg atgcgctcgg gattgggtgtg 360
aagaagcaag gactgttaga ggcaggcttt atagtaacaa gacggtgggg caaactctga 420
tttcggtggg ggaatgtcat ggtcttgctt tactaagttt tgagactggc aggtagtga 480
actcattagg ctgagaacct tgtggaatgc acttgaccca scgatagag gaagtagcca 540
ggtgggagcc tttcccagtg ggtgtgggac atatctggca agattttgtg gcactcctgg 600
ttacagatac tggggcagca aataaaaactg aatcttg 637

```

<210> 308

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 308

```

acgattttca ttatcatgta aatcgggtca ctcaaggggc caaccacagc tgggagccac 60
tgctcagggg aaggttcata tgggactttc tactgcccc gggtctatac aggatataaa 120
ggngcctcac agtatagatc tggtagcaaa gaagaagaaa caaacactga tctctttctg 180
ccacccctct gacccttttg aactcctctg accctttaga acaagcctac ctaatatctg 240
ctagagaaaa gaccaacaac ggcttcaaag gatctcttac catgaaggtc tcagctaatt 300
cttggttaag atgtgggttc cacattaggt tctgaatatg gggggaaggg tcaatttgct 360
catttttgtgt gtggataaag tcaggatgcc caggggccag agcagggggc tgcttgcttt 420
gggaacaatg gctgagcata taaccatagg ttatggggaa caaaacaaca tcaaagtcac 480
tgtatcaatt gccatgaaga cttgagggc ctgaatctac cgattcatct taaggcagca 540
ggaccagttt gagtggcaac aatgcagcag cagaatcaat ggaaacaaca gaatgattgc 600
aatgtccttt tttttctcct gcttctgact tgataaaaagg ggaccgt 647

```

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

```

actttatagt ttaggctgga cattggaaaa aaaaaaaagc cagaacaaca tgtgatagat 60
aatatgattg gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg 120
gagcacatct tcagcaagag ggggaaatac tcatcatttt tggccagcag ttgtttgatc 180
accaaacatc atgccagaat actcagcaaa ccttcttagc tcttgagaag tcaaagtcag 240
ggggaattta ttcttgccaa tttaattgg actccttagt tgagagcagc ggctaccag 300
ctggggtggg ggagcgaacc cgtcactagt ggacatgcag tggcagagct cctggtaacc 360
acctagagga atacacaggc acatgtgtga tgccaagcgt gacacctgta gcactcaa 420
ttgtcttggt tttgtctttc ggtgtgtaag attcttaagt 460

```

<210> 310

<211> 539

<212> DNA

<213> Homo sapien

acgggactta	tcaaataaag	ataggaaaag	aagaaaactc	aaatattata	ggcagaaatg	60
ctaaaggttt	taaaatatgt	caggattgga	agaaggcatg	gataaagaac	aaagttcagt	120
taggaaagag	aaacacagaa	ggaagagaca	caataaaaagt	cattatgtat	tctgtgagaa	180
gtcagacagt	aagatttggt	ggaaatgggt	tggtttggtg	tatggtatgt	attttagcaa	240
taatctttat	ggcagagaaa	gctaaaatcc	tttagcttgc	gtgaatgac	acttgctgaa	300
ttcctcaagg	taggcattgt	gaaggagggt	ttagaggaga	cacagacaca	atgaactgac	360
ctagatagaa	agccttagta	tactcagcta	ggaatagtga	ttctgagggc	acactgtgac	420
atgattatgt	cattacatgt	atggtagtga	tggggatgat	aggaaggaag	aacttatggc	480
atattttcac	ccccacaaaa	gtcagttaaa	tattgggaca	ctaaccatcc	aggtcaaga	539

<213> Homo sapien

<223> n = A, T, C or G

caaatttgag	ccaatgacat	agaattttac	aaatcaagaa	gcttattctg	gggccatttc	60
ttttgacgtt	ttctctaaac	tactaaagag	gcattaatga	tccataaatt	atattatcta	120
catttacagc	atttaaaatg	tgttcagcat	gaaatattag	ctacagggga	agctaaataa	180
attaaacatg	gaataaagat	ttgtccttaa	atataatcta	caagaagact	ttgatatttg	240
tttttcacaa	gtgaagcatt	cttataaagt	gtcataacct	ttttggggaa	actatgggaa	300
aaaatgggga	aactctgaag	ggttttaagt	atcttacctg	aagctacaga	ctccataacc	360
tctctttaca	gggagctcct	gcagccccta	cagaaatgag	tggctgagat	tottgattgc	420
acagcaagag	cttctcatct	aaaccctttc	cctttttagt	atctgtgtat	caagtataaa	480
agttctataa	actgtagtnt	acttatttta	atccccaag	cacagt		526

<213> Homo sapien

$\langle 223 \rangle$ n = A, T, C or G

cctctctctc	cccacccct	gactctagag	aactgggttt	tctccagta	ctccagcaat	60
tcattttctga	aagcagttga	gccactttat	tccaaagtac	actgcagatg	ttcaaactct	120
ccattttctct	ttcccttcca	cctgccagtt	ttgctgactc	tcaacttgtc	atgagtgtaa	180
gcattaagga	cattatgctt	cttcgattct	gaagacaggc	cctgctcatg	gatgactctg	240
gcttcttagg	aaaataTTTT	tcttccaaaa	tcagtaggaa	atctaaactt	atccccctctt	300
tgcagatgtc	tagcagcttc	agacatttgg	ttaagaaccc	atgggaaaaa	aaaaaatcct	360
tgctaattgtg	gtttcctttg	taaaccanga	ttcttatttg	nctggatatag	aatatcagct	420
ctgaacgtgt	ggtaaagatt	tttgtgtttg	aatataggag	aatcagttt	gctgaaaagt	480
tagtcttaat	tatctattgg					500

<210> 313
 <211> 718
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(718)
 <223> n = A,T,C or G

<400> 313

ggagatttgt	gtggtttgca	gccgagggag	accaggaaga	tctgcatggt	gggaaggacc	60
tgatgataca	gaggtgagaa	ataagaaagg	ctgctgactt	taccatctga	ggccacacat	120
ctgctgaaat	ggagataatt	aacatcacta	gaaacagcaa	gatgacaata	taatgtctaa	180
gtagtgaacat	gtttttgcac	atttccagcc	cttttaaata	tccacacaca	caggaagcac	240
aaaaggaagc	acagagatcc	ctgggagaaa	tgcccggccg	ccatcttggg	tcatcgatga	300
gcctcgccct	gtgcctgntc	ccgcttggtg	gggaaggaca	ttagaaaatg	aattgatgtg	360
ttccttaaag	gattggcagga	aaacagatcc	tgttggtgat	atttatttga	acgggattac	420
agatttgaaa	tgaagtcaca	aagtgagcat	taccaatgag	aggaaaacag	acgagaaaat	480
cttgatgggt	cacaagacat	gcaacaaaca	aaatggaata	ctgtgatgac	acgagcagcc	540
aaactggggag	gagataccac	ggggcagagg	tcaggattct	ggcctgctg	cctaactgtg	600
cgttatacca	atcattttcta	tttctaccct	caaacaagct	gtngaataatc	tgacttacgg	660
ttcttntggc	ccacattttc	atnatccacc	ccntcntttt	aannttantic	caaantgt	718

<210> 314
 <211> 358
 <212> DNA
 <213> Homo sapien

<400> 314

gtttattttac	attacagaaa	aaacatcaag	acaatgtata	ctattttcaaa	tatatccata	60
cataatcaaa	tatagctgta	gtacatgttt	tcattgggtg	agattaccac	aaatgcaagg	120
caacatgtgt	agatctcttg	tcttattctt	ttgtctataa	tactgtattg	tgtagtccaa	180
gctctcggta	gtccagccac	tgtgaaacat	gctcccttta	gattaacctc	gtggacgctc	240
ttgttgtlatt	gctgaactgt	agtgcctgtg	atthttgcttc	tgtctgtgaa	ttctgttgct	300
tctggggcat	ttccttggtg	tgcagaggac	caccacacag	atgacagcaa	tctgaatt	358

<210> 315
 <211> 341
 <212> DNA
 <213> Homo sapien

<400> 315

taccacctcc	ccgctggcac	tgatgagccg	catcaccatg	gtcaccagca	ccatgaaggc	60
ataggtgatg	atgaggacat	ggaatgggcc	cccaaggatg	gtctgtccaa	agaagcgagt	120
gacccccatt	ctgaagatgt	ctggaacctc	taccagcagg	atgatgatag	cccaatgac	180
agtcaccagc	tccccgacca	gccggatata	gtccttaggg	gtcatgtagg	cttctgaag	240
tagcttctgc	tgtgaagagg	tgttgtcccg	ggggctcgtg	cggttattgg	tcctgggctt	300
gagggggcgg	tagatgcagc	acatggtgaa	gcagatgatg	t		341

<210> 316
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 316

```

agactgggca agactcttac gccccacact gcaatttggt cttgttgccg tatccattta      60
tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact    120
cattcaggga gctctggttg caatattagt t                                     151

```

<210> 317

<211> 151

<212> DNA

<213> Homo sapien

<400> 317

```

agaactagtg gatcctaataa aaatacctga aacatatatt ggcatttata aatggctcaa      60
atcttcattt atctctggcc ttaaccctgg ctcctgaggc tgcgggccagc agatcccagg    120
ccagggtctt gttcttgcca cacctgcttg a                                     151

```

<210> 318

<211> 151

<212> DNA

<213> Homo sapien

<400> 318

```

actggtggga ggcgctgttt agttggctgt tttcagaggg gtctttcgga gggacctcct      60
gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg    120
tgggggcggt ttatcaggca gtgataaaca t                                     151

```

<210> 319

<211> 151

<212> DNA

<213> Homo sapien

<400> 319

```

aactagtgga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta      60
catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg    120
taagattggg tttatgtgat tttagtgggt a                                     151

```

<210> 320

<211> 150

<212> DNA

<213> Homo sapien

<400> 320

```

aactagtgga tccactagtc cagtgtggtg gaattccatt gtgttggggt tctagatcgc      60
gagcggctgc cctttttttt tttttttttg ggggggaatt tttttttttt aatagttatt    120
gagtgttcta cagcttacag taaataccat                                     150

```

<210> 321

<211> 151

<212> DNA

<213> Homo sapien

<400> 321

```

agcaactttg tttttcatcc aggttatttt aggccttagga tttcctctca cactgcagtt      60
taggggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg    120

```

151

```
<220>
<221> misc_feature
<222> (1)...(151)
<223> n = A,T,C or G
```

60
120
151

```
<220>
<221> misc_feature
<222> (1)...(151)
<223> n = A,T,C or G
```

60
120
151

```
<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G
```

60
120
180
240
300
360
420
461

$\langle 210 \rangle$	325
$\langle 211 \rangle$	400

<212> DNA

<213> Homo sapien

<400> 325

```

aactgtttc catgttatgt ttctacacat tgctacctca gtgctcctgg aaacttagct      60
tttgatgtct ccaagtagtc caccttcatt taactctttg aaactgtatc atctttgcca      120
agtaagagtg gtggcctatt tcagctgctt tgacaaaatg actggctcct gacttaacgt      180
tctataaatg aatgtgctga agcaaagtgc ccatggtggc ggcgaagaag agaaagatgt      240
gttttglttt ggactctctg tggctccctc caatgctgtg ggtttccaac caggggaagg      300
gtcccttttg cattgccaaag tgccataacc atgagcacta cgctaccatg gttctgcctc      360
ctggccaagc aggctgggtt gcaagaatga aatgaatgat      400

```

<210> 326

<211> 1215

<212> DNA

<213> Homo sapien

<400> 326

```

ggaggactgc agcccgcaact cgcagccctg gcaggcggca ctggtcatgg aaaacgaatt      60
gttctgctcg ggcgtcctgg tgcatecgca gtgggtgctg tcagccgcac actgtttcca      120
gaactcctac accatcgggc tgggcctgca cagtcttgag gccgaccaag agccagggag      180
ccagatggtg gaggccagcc tctccgtaog gcacccagag tacaacagac ccttgctcgc      240
taacgacctc atgctcatca agttggacga atccgtgtcc gagtctgaca ccatccggag      300
catcagcatt gcttcgcagt gccctaccgc ggggaactct tgccctcgtt ctggctgggg      360
tctgctggcg aacggcagaa tgcctaccgt gctgcagtgc gtgaacgtgt cgggtggtgc      420
tgaggaggtc tgcagtaagc tctatgaccc gctgtaccac cccagcatgt tctgcgccgg      480
cggagggcaa gaccagaagg actcctgcaa cgggtgactct ggggggcccc tgatctgcaa      540
cgggtacttg cagggccttg tgtctttcgg aaaagccccg tgtggccaag ttggcgtgcc      600
aggtgtctac accaacctct gcaaattcac tgagtggata gagaaaaccg tccaggccag      660
ttaactctgg ggactgggaa cccatgaaat tgacccccaa atacatcctg cggaaggaa      720
tcaggaatat ctgttcccag cccctcctcc ctcaggccca ggagtccagg ccccagccc      780
ctcctccctc aaaccaaggg tacagatccc cagccctccc tccctcagac ccaggagtcc      840
agacccccca gcccctcctc cctcagaccc aggagtccag cccctcctcc ctcagaccca      900
ggagtccaga cccccagcc cctcctccct cagaccccagg ggtccaggcc cccaaccct      960
cctccctcag actcagaggt ccaagccccc aacccctcct tccccagacc cagaggtcca      1020
ggtcccagcc cctcctccct cagacccagc ggtccaatgc cacctagact ctccctgtac      1080
acagtcccc cttgtggcac gttgacccaa ccttaccagt tgggttttca tttttgtcc      1140
ctttccccta gatccagaaa taaagtctaa gagaagcgca aaaaaaaaaa aaaaaaaaaa      1200
aaaaaaaaaa aaaaaa      1215

```

<210> 327

<211> 220

<212> PRT

<213> Homo sapien

<400> 327

```

Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met
1          5          10          15
Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val
20        25        30
Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly
35        40        45
Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu
50        55        60

```

```

<210> 328
<211> 234
<212> DNA
<213> Homo sapien

<400> 328
cgctcgtctc tggtagctgc agccaaatca taaacggcga ggactgcagc ccgcactcgc      60
agccctggca ggcggaactg gtcattgaaa acgaattgtt ctgctcgggc gtcttggtgc      120
atccgcagtg ggtgctgtca gccacacact gtttcagaaa ctctacacc atcgggctgg      180
gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag gcc          234

```

<400> 329

```
<210> 330
<211> 70
<212> DNA
<213> Homo sapien
```

<400> 330

cccaacacaa tggcccgatc ccatccctga ctccgccctc aggatcgctc gtctctggta 60
gctgcagcca 70

<210> 331

<211> 22

<212> PRT

<213> Homo sapien

<400> 331

Gln His Asn Gly Pro Ile Pro Ser Leu Thr Pro Pro Ser Gly Ser Leu
1 5 10 15
Val Ser Gly Ser Cys Ser
20

<210> 332

<211> 2507

<212> DNA

<213> Homo sapien

<400> 332

tggtgccgct gcagccggca gagatggttg agctcatggt cccgctggtg ctctccttc 60
tgcccttcct tctgtatatg gctgcgcccc aaatcaggaa aatgctgtcc agtggggtgt 120
gtacatcaac tggtcagctt cctgggaaaag tagttgtggt cacaggagct aatacaggta 180
tcgggaagga gacagccaaa gagctggctc agagaggagc tcgagtatat ttagcttgcc 240
gggatgtgga aaagggggaa ttggtggcca aagagatcca gaccacgaca gggaaccagc 300
aggtgttggg gcggaactg gacctgtctg atactaagtc tattcgagct tttgctaagg 360
gcttcttagc tgagggaaaag cacctccacg ttttgatcaa caatgcagga gtgatgatgt 420
gtccgtactc gaagacagca gatggctttg agatgcacat aggagtcaac cacttgggtc 480
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<210> 333

<211> 3030

<212> DNA

<213> Homo sapien

<400> 333

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<210> 334

<211> 2417

<212> DNA

<213> Homo sapien

<400> 334

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<210> 336

<211> 147

<212> PRT

<213> Homo sapien

<400> 336

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Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln
35          40          45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
50          55          60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
65          70          75          80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
85          90          95
Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala
100          105          110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
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Ser Tyr Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro
130          135          140
Ala Phe Trp
145

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<210> 337

<211> 9

<212> PRT

<213> Homo sapien

<400> 337

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Ala Leu Thr Gly Phe Thr Phe Ser Ala
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<210> 338

<211> 9

<212> PRT

<213> Homo sapien

<400> 338

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Leu Leu Ala Asn Asp Leu Met Leu Ile

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<210> 339
 <211> 318
 <212> PRT
 <213> Homo sapien

<400> 339

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 Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Val Thr Gly
 35 40 45
 Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg
 50 55 60
 Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu
 65 70 75 80
 Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val
 85 90 95
 Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys
 100 105 110
 Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala
 115 120 125
 Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met
 130 135 140
 His Ile Gly Val Asn His Leu Gly His Phe Leu Leu Thr His Leu Leu
 145 150 155 160
 Leu Glu Lys Leu Lys Glu Ser Ala Pro Ser Arg Ile Val Asn Val Ser
 165 170 175
 Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly
 180 185 190
 Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala
 195 200 205
 Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly
 210 215 220
 Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val
 225 230 235 240
 Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe
 245 250 255
 Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu
 260 265 270
 Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His
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 Val Ala Trp Val Ser Ala Gln Ala Arg Asn Glu Thr Ile Ala Arg Arg
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 Leu Trp Asp Val Ser Cys Asp Leu Leu Gly Leu Pro Ile Asp
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<210> 340
 <211> 483
 <212> DNA
 <213> Homo sapien

<400> 340

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<210> 341

<211> 344

<212> DNA

<213> Homo sapien

<400> 341

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aatttactta	atgaaaaaact	gaagagaaca	aaatttgtaa	ccactagcac	ttaagtactc	300
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<210> 342

<211> 592

<212> DNA

<213> Homo sapien

<400> 342

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<210> 343

<211> 382

<212> DNA

<213> Homo sapien

<400> 343

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382

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<210> 344
<211> 536
<212> DNA
<213> Homo sapien
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<400> 344							
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<210> 345
<211> 251
<212> DNA
<213> Homo sapien
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<210> 346
<211> 282
<212> DNA
<213> Homo sapien
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ctaagtcttg	ttaccaaaaa	aaggaaaaag	aaaagatctt	ctcagttaca	aattctggga		120
agggagacta	tacctggctc	ttgcccctaag	tgagagggtc	tccctccgcg	accaaaaaat		180
agaaagcgtt	tctatttcac	tggcccaggt	agggggaagg	agagtaactt	tgagtctgtg		240
ggtctcattt	cccaaggtgc	cttcaatgct	catnaaaacc	aa			282

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<210> 347
<211> 201
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc feature
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<222> (1)...(201)

<223> n = A,T,C or G

<400> 347

acacacataa	tattataaaa	tgccatctaa	ttggaaggag	ctttctatca	ttgcaagtca	60
taaatataac	ttttaaaaana	ntactancag	cttttaccta	ngctcctaaa	tgcttgtaaa	120
tctgagactg	actggaccca	cccagaccca	gggcaaagat	acatgttacc	atatcatctt	180
tataaagaat	ttttttttgt	c				201

<210> 348

<211> 251

<212> DNA

<213> Homo sapien

<400> 348

ctgttaatca	caacatttgt	gcataccttg	tgccaagtga	gaaaatgttc	taaaatcaca	60
agagagaaca	gtgccagaat	gaaactgacc	ctaagtccca	ggtgcccctg	ggcaggcaga	120
aggagacact	cccagcatgg	aggagggttt	atcttttcat	cctaggtcag	gtctacaatg	180
ggggaagggt	ttattataga	actcccaaca	gcccacctca	ctcctgccac	ccacccgatg	240
gccctgcctc	c					251

<210> 349

<211> 251

<212> DNA

<213> Homo sapien

<400> 349

taaaaatcaa	gccatttaaat	tgtatctttg	aaggtaaaca	atatatggga	gctggatcac	60
aacccctgag	gatgccagag	ctatgggtcc	agaacatggt	gtggatttat	caacagagtt	120
cagaagggtc	tgaactctac	gtgttaccag	agaacataat	gcaattcatg	cattccactt	180
agcaattttg	taaaatacca	gaaacagacc	ccaagagtct	ttcaagatga	ggaaaattca	240
actcctggtt	t					251

<210> 350

<211> 908

<212> DNA

<213> Homo sapien

<400> 350

ctggacactt	tgcgagggtc	tttgctggct	gctgctgctg	cccgatcatgc	tactcatcgt	60
agcccgcccg	gtgaagctcg	ctgctttccc	tacctcctta	agtgactgcc	aaacgcccac	120
cggctggaat	tgctctgggt	atgatgacag	agaaaatgat	ctcttcctct	gtgacaccaaa	180
cacctgtaaa	tttgatgggg	aatgtttaag	aattggagac	actgtgactt	gcgtctgtca	240
gttcaagtgc	aacaatgact	atgtgcctgt	gtgtggctcc	aatggggaga	gctaccagaa	300
tgagtgttac	ctgcgacagg	ctgcatgcaa	acagcagagt	gagatacttg	tggtgtcaga	360
aggatcatgt	gccacagtcc	atgaaggctc	tggagaaact	agtcaaaagg	agacatccac	420
ctgtgatatt	tgccagtttg	gtgcagaatg	tgacgaagat	gccgaggatg	tctggtgtgt	480
gtgtaatat	gactgttctc	aaaccoaactt	caatccccctc	tgogcttctg	atgggaaatc	540
ttatgataat	gcatgccaaa	tcaaagaagc	atcgtgtcag	aaacaggaga	aaattgaagt	600
catgtctttg	ggtcgatgtc	aagataacac	aactacaact	actaagtctg	aagatgggca	660
ttatgcaaga	acagattatg	cagagaatgc	taacaaatta	gaagaaaagt	ccagagaaca	720
ccacatacct	tgtccggaac	attacaatgg	cttctgcatg	catgggaagt	gtgagcattc	780
tatcaatatg	caggagccat	cttgccaggtg	tgatgctggt	tatactggac	aacactgtga	840
aaaaaaggac	tacagtgttc	tatacgttgt	tcccggctcct	gtacgatttc	agtatgtctt	900

aatcgtag

908

<210> 351

<211> 472

<212> DNA

<213> Homo sapien

<400> 351

ccagttat	ttt	gcaagtgg	ta	agagcctatt	taccataaat	aataactaaga	accaaactcaa	60
gtcaaacc	ttt	aatgccattg	tt	tattgtgaa	ttaggattaa	gtagtaattt	tcaaaattca	120
cattaact	ttg	at	ttt	taaaat	cagwtttgyg	agtcattttac	cacaagctaa	180
tatgataaaa	aca	accattg	tatt	cctgtt	tttctaaaca	gtcctaattt	ctaactgt	240
atatatcctt	cg	acatcaat	ga	actttgtt	ttcttttact	ccagtaataa	agtaggcaca	300
gatctgtcca	ca	acaaactt	gcc	ctctcat	gccttgcctc	tcacatgct	ctgctccagg	360
tcagccccct	ttt	ggcctgt	tt	gttttgtc	aaaaacctaa	tctgcttctt	gcttttcttg	420
gtaatatata	ttt	agggaag	at	gttgcttt	gcccacacac	gaagcaaagt	aa	472

<210> 352

<211> 251

<212> DNA

<213> Homo sapien

<400> 352

ctcaaagcta	at	ctctcggg	aat	caaacca	gaaaagggca	aggatcttag	gcatgggtgga	60
tgtggataag	gcc	aggtcaa	tgg	ctgcaag	catgcagaga	aagaggta	catcggagcgtg	120
caggctgcgt	tcc	gtcctta	cgat	gaagac	cacgatgcag	tttccaaaca	ttgccactac	180
atacatggaa	agg	agggggga	ag	ccaacca	gaaatgggct	ttctctaata	ctgggatacc	240
aataagcaca	a							251

<210> 353

<211> 436

<212> DNA

<213> Homo sapien

<400> 353

tttttttttt	tttttttttt	tttttttaca	caatgcagtc	at	ttat	tttat	tgagtatgtg	60
cacattatgg	tattattact	atactgatta	tattttatcat	gt	gacttcta	attaraaaat		120
gtatccaaaa	gcaaaacagc	agatatacaa	aattaaagag	ac	agaagata	gacattaaca		180
gataaggcaa	cttatacatt	gacaatccaa	atccaatata	tt	taaacatt	tgggaaatga		240
gggggacaaa	tgggaagccar	atcaaatttg	tgtaaaacta	tt	cagtatgt	ttcccttgct		300
tcatgtctga	raaggctctc	ccttcaatgg	ggatgacaaa	ct	caaatgc	cacacaaatg		360
ttaacagaat	actagattca	cactggaacg	ggggtaaaga	ag	aaattatt	ttctataaaa		420
gggctcctaa	tgtagt							436

<210> 354

<211> 854

<212> DNA

<213> Homo sapien

<400> 354

ccttttctag	ttc	accagtt	tt	ctgcaagg	at	gctgggtta	gggagtgtct	gcaggaggag	60
caagctgtaa	ac	caaatcta	gg	aaacatag	gaaacgagcc	aggcacaggg	ctgggtgggcc		120
atcagggacc	acc	ctttggg	tt	gatatttt	gcttaatctg	catcttttga	gtaagatcat		180
ctggcagtag	aag	ctgttct	cc	aggtacat	ttctctagct	catgtacaaa	aacatcctga		240

```
<210> 355
<211> 676
<212> DNA
<213> Homo sapien
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```
<210> 356
<211> 574
<212> DNA
<213> Homo sapien
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```
<210> 357
<211> 393
<212> DNA
<213> Homo sapien
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```

tggactcctt atgtgagagc agcggctacc cagctgggggt ggtggagcga acccgtcact 300
agtggacatg cagtggcaga gctcctggta accacctaga ggaatacaca ggcacatgtg 360
tgatgccaaag cgtgacacct gtagcaactca aatttgtctt gtttttgtct ttcggtgtgt 420
agattcttag t 431

```

```

<210> 361
<211> 351
<212> DNA
<213> Homo sapien

```

```

<400> 361
acactgattt ccgatcaaaa gaatcatcat ctttaccttg acttttcagg gaattactga 60
actttcttct cagaagatag ggcacagcca ttgccttggc ctcaactgaa ggtctgcat 120
ttgggtcctc tgggtctctg ccaagtttcc cagccactcg agggagaaat atcgggaggt 180
ttgacttctt ccggggcttt cccgagggtc tcaccgtag ccctgcggcc ctcagggtc 240
caatcctgga ttcaatgtct gaaacctcgc tctctgcctg ctggacttct gaggcctca 300
ctgccactct gtctccagc tctgacagct cctcatctgt ggtcctgttg t 351

```

```

<210> 362
<211> 463
<212> DNA
<213> Homo sapien

```

```

<400> 362
acttcatcag gccataatgg gtgcctcccg tgagaatcca agcacctttg gactgcgcga 60
tgtagatgag ccggctgaag atcttgcgca tgcgcggctt cagggcgaag ttcttggcgc 120
ccccggtcac agaaatgacc aggttgggtg ttttcagggt ccagtgtctg gtcagcagct 180
cgtaaaggat ttccgcgtcc gtgtcgcagg acagacgtat atacttcctt ttcttcccca 240
gtgtctcaaa ctgaatatcc ccaaaggcgt cggtaggaaa ttcttggtg tgtttcttgt 300
agttccattt ctcaactttg ttgatctggg tgccttccat gtgctggctc tgggcatagc 360
cacacttgca cacattctcc ctgataagca cगतggtgtg gacaggaaag aaggatttca 420
ttgagcctgc ttatggaaac tggattgtt agcttaata gac 463

```

```

<210> 363
<211> 653
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

```

```

<400> 363
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ctcttgnga ttctgggtga catcttcatg aatggcaacc gtgccagwga ggtgtcctc 120
tgggaggcac tacgcaagat gggactgctt cctgggggtga gacatcctct ccttgagat 180
ctaacgaaac ttctcaccta tgagttgtaa agcagaaata cctgnactac agacgagtgc 240
ccaacagcaa ccccccgaa gtatgagttc ctctrgggcc tccgttccta ccatgagasc 300
tagcaagatg naagtgttg gantcattgc agaggttcag aaaagagacc cntcgtgact 360
ggtctgcaca gttcatggag gctgcagatg aggccttga tgctctggat gctgctgcag 420
ctgaggccga agccccggct gaagcaagaa cccgcattgg aattggagat gaggtgtgt 480
ntgggccctg gagctgggat gacattgagt ttgagctgct gacctgggat gaggaaggag 540
attttgga tcntggtcc agaattccat ttaccttctg ggccagatac caccagaatg 600

```

cccgcctccag attccctcag acctttgccg gtcccattat tggctctggt ggt

653

<210> 364
<211> 401
<212> DNA
<213> Homo sapien

<400> 364
actagaggaa agacgttaaa ccactctact accacttgtg gaactctcaa agggtaaagt 60
acaaagccaa tgaatgactc taaaaacaat atttacattt aatggtttgt agacaataaa 120
aaaacaagggt ggatagatct agaattgtaa cattttaaga aaaccatagc atttgacaga 180
tgagaaaagct caattataga tgcaaagtta taactaaact actatagtag taaagaaata 240
catttcacac ccttcatata aattcactat cttggcttga ggcaactccat aaaatgtatc 300
acgtgcatag taaatcttta tatttgctat ggcgttgac tagaggactt ggactgcaac 360
aagtggatgc gcggaaaatg aaatcttctt caatagccca g 401

<210> 365
<211> 356
<212> DNA
<213> Homo sapien

<400> 365
ccagtgtcat atttgggctt aaaatttcaa gaagggcact tcaaattggct ttgcatttgc 60
atgtttcagt gctagagcgt aggaatagac cctggcgctc actgtgagat gttcttcagc 120
taccagagca tcaagtctct gcagcaggctc attcttgggt aaagaaatga cttccacaaa 180
ctctccatcc cctggctttg gcttcggcct tgcgttttcg gcatcatctc cgtaaatggt 240
gactgtcacg atgtgtatag tacagtttga caagcctggg tccatacaga ccgctggaga 300
acattcggca atgtccctt tgtagccagt ttcttcttcg agtcccga gagcag 356

<210> 366
<211> 1851
<212> DNA
<213> Homo sapien

<400> 366
tcatcaccat tgccagcagc ggcacogtta gtcaggtttt ctgggaatcc cacatgagta 60
cttcogtgtt cttcattctt cttcaatagc cataaatctt ctagctctgg ctggctgttt 120
tcaacttctt taagcctttg tgactcttcc tctgatgtca gctttaagtc ttgttctgga 180
ttgctgtttt cagaagagat tttaacatc tgtttttctt tgtagtcaga aagtaactgg 240
caaattacat gatgatgact agaaacagca tactctctgg ccgtctttcc agatcttgag 300
aagatacatc aacattttgc tcaagtagag ggctgactat acttgctgat ccacaacata 360
cagcaagtat gagagcagtt cttccatata tatccagcgc atttaaattc gcttttttct 420
tgattaaaaa ttccaccact tgctgttttt gctcatgtat accaagtagc agtgggtgta 480
ggccatgctt gttttttgat tcgatatcag caccgtataa gagcagtgtt ttggccatta 540
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ttggatcagt gccatgttcc agcaacatta acgcacattc atcttcctgg cattgtacgg 660
cctttgtcag agctgtcctc tttttgttgt caaggacatt aagttgacat cgtctgtcca 720
gcacaggttt tactacttct gaattcccat tggcagaggc cagatgtaga gcagtctctc 780
tttgcctgtc cctcttggtc acatccgtgt ccctgagcat gacgatgaga tcctttctgg 840
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acctgggac catgaaggcg ctgtcatcgt agtctccca agcgaccacg ttgctcttgc 960
cgctccctc cagcagggga agcagtgga gcaccacttg cactcttgc tccaagcgt 1020
cttcacagag gactcgttgt ggtctccaga agtgccacg ttgctcttgc cgctccctc 1080
gtccatccag ggaggaagaa atgcaggaaa tgaaagatgc atgcaogatg gtatactctc 1140

cagccatcaa	acttctggac	agcaggtcac	ttccagcaag	gtggagaaa	ctgtccaccc	1200
acagaggatg	agatccagaa	accacaatat	ccattcacaa	acaaacactt	ttcagccaga	1260
cacagggtact	gaaatcatgt	catctgcggc	aacatgggtg	aacctaccca	atcacacatc	1320
aagagatgaa	gacactgcag	tatatctgca	caacgtaata	ctcttcatcc	ataacaaaat	1380
aataataattt	tcctctggag	ccatatggat	gaactatgaa	ggaagaactc	cccgaagaag	1440
ccagtcgcag	agaagccaca	ctgaagctct	gtcctcagcc	atcagcgcca	cggacaggag	1500
tgtgttttctt	ccccagtgat	gcagcctcaa	gttatcccgga	agctgccgca	gcacacggtg	1560
gctcctgaga	aacaccccag	ctcttccggg	ctaacacagg	caagtcaata	aatgtgataa	1620
tcacataaac	agaattaaaa	gcaaagtcac	ataagcatct	caacagacac	agaaaaggca	1680
tttgacaaaa	tccagcatcc	ttgtatttat	tgttgaggtt	ctcagaggaa	atgcttctaa	1740
cttttcccca	tttagtatta	tgttggtgtg	gggcttgctc	taggtgggtt	ttattacttt	1800
aaggtatgtc	ccttctatgc	ctgttttgct	gagggtttta	attctcgtgc	c	1851

<210> 367

<211> 668

<212> DNA

<213> Homo sapien

<400> 367

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ttcagtattt	tgaagataaa	atrrgtagat	ctataccttg	ttttttgatt	cgatatcagc	120
acortataag	agcagtgctt	tggccattaa	tttatctttc	atrrtagaca	gcrtagtgya	180
gagtgggtatt	tccatactca	tctggaatat	ttggatcagt	gccatgttcc	agcaacatta	240
acgcacattc	atcttcctgg	cattgtacgg	cctgtcagta	ttagacccaa	aaacaaatta	300
catatcttag	gaattcaaaa	taacattcca	cagctttcac	caactagtta	tatttaaagg	360
agaaaactca	tttttatgcc	atgtattgaa	atcaaaccac	cctcatgctg	atatagttgg	420
ctactgcata	cctttatcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	480
cgtctgtcca	gcaggagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	540
gcagtcctat	gagagtgaga	agacttttta	ggaaattgta	gtgcactagc	tacagccata	600
gcaatgattc	atgtaactgc	aaacactgaa	tagcctgcta	ttactctgcc	ttcaaaaaaa	660
aaaaaaaa						668

<210> 368

<211> 1512

<212> DNA

<213> Homo sapien

<400> 368

gggtcgccca	gggggsgcgt	gggctttcct	cgggtgggtg	tgggttttcc	ctgggtgggg	60
tgggctgggc	trgaatcccc	tgctgggggt	ggcaggtttt	ggctgggatt	gacttttytc	120
ttcaaacaga	ttggaaaccc	ggagttacct	gctagtgtgt	gaaactgggt	ggtagacgcg	180
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tccatgcggg	ctgcttcttc	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
tgggtgctgcc	gttgcttccc	ctgctgcagg	gagagcgcca	agagcaacgt	gggcacttct	360
ggagaccacg	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtgggtgccgc	420
cactgcttcc	cctgctgcag	ggggagtggc	aagagcaacg	tgggcgcttc	tggagaccac	480
gacgaytctg	ctatgaagac	actcaggaac	aagatgggca	agtgggtgctg	ccactgcttc	540
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gccttcatgg	agcccaggta	ccacgtccgt	ggagaagatc	tggacaagct	ccacagagct	660
gcctgggtggg	gtaaaagtccc	cagaaaggat	ctcatcgctc	tgctcaggga	cactgacgtg	720
aacaagaagg	acaagcaaaa	gaggactgct	ctacatctgg	cctctgccaa	tgggaattca	780
gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
aggacagctc	tgayaaaggc	cgtacaatgc	caggaagatg	aatgtgcgtt	aatgttgctg	900
gaacatggca	ctgatccaaa	tattccagat	gagtatggaa	ataccactct	rcactaygct	960

rtctayaatg	aagataaatt	aatggccaaa	gcaactgctct	tataygggtgc	tgatatcgaa	1020
tcaaaaaaca	aggtatagat	ctactaattt	tatcttcaaa	atactgaaat	gcattcattt	1080
taacattgac	gtgtgtaagg	gccagtcttc	cgtatttgga	agctcaagca	taacttgaat	1140
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gaaaacactg	aatttgtaaa	aggtaatact	tactattttt	caatttttcc	ctcctaggat	1320
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actccaagaa	aagttaaaca	tgtttcagtg	aatagagatc	ctgctccttt	ggcaagttcc	1440
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tgatctcgtg	cc					1512

<210> 369
 <211> 1853
 <212> DNA
 <213> Homo sapien

<400> 369

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ttcaaacaga	ttggaacccc	ggagttacct	gctagttggg	gaaactgggt	ggtagacgcg	180
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tccatgccgg	ctgctttctt	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
tggtgctgcc	gttgcttccc	ctgctgcagg	gagagcggca	agagcaacgt	gggcacttct	360
ggagaccacg	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtggtgccgc	420
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gccttcatgg	akcccaggta	ccacgtccrt	ggagaagatc	tggacaagct	ccacagagct	660
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gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
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rtctayaatg	aagataaatt	aatggccaaa	gcaactgctct	tataygggtgc	tgatatcgaa	1020
tcaaaaaaca	agcatggcct	cacaccactg	ytacttggtg	tacatgagca	aaaacagcaa	1080
gtsgtgaaat	ttttaatyaa	gaaaaaagcg	aattttaaatt	gcrcctggata	gatatggaag	1140
ractgctctc	atacttgctg	tatgttggtg	atcagcaagt	atagtcagcc	ytctacttga	1200
gcaaaatrtr	gatgtatctt	ctcaagatct	ggaaagacgg	ccagagagta	tgctgtttct	1260
agtcatcatc	atgtaatttg	ccagttactt	tctgactaca	aagaaaaaca	gatgttaaaa	1320
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caaaggctta	aaggaaagtga	aaacagccag	ccagaggcat	ggaaactttt	aaattttaaac	1440
ttttgggtta	atgttttttt	tttttgccct	aataatatta	gatagtccca	aatgaaatwa	1500
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 <211> 2184
 <212> DNA
 <213> Homo sapien

<400> 370

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<210> 371

<211> 1855

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1855)

<223> n = A,T,C or G

<400> 371

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<210> 372

<211> 1059

<212> DNA

<213> Homo sapien

<400> 372

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<210> 373

<211> 1155
 <212> DNA
 <213> Homo sapien

<400> 373

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<210> 374
 <211> 2000
 <212> DNA
 <213> Homo sapien

<400> 374

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<210> 375

<211> 2040

<212> DNA

<213> Homo sapien

<400> 375

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 <211> 329
 <212> PRT
 <213> Homo sapien

<400> 376

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Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile	Val	Ser	Pro	Leu	Leu
	290					295					300				
Glu	Gln	Asn	Val	Asp	Val	Ser	Ser	Gln	Asp	Leu	Glu	Arg	Arg	Pro	Glu
305					310					315					320
Ser	Met	Leu	Phe	Leu	Val	Ile	Ile	Met							
				325											

<210> 377
 <211> 148
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(148)
 <223> Xaa = Any Amino Acid

<400> 377

Met	Thr	Xaa	Pro	Ser	Trp	Ser	Pro	Gly	Thr	Thr	Ser	Val	Glu	Lys	Ile
1				5					10					15	
Trp	Thr	Ser	Ser	Thr	Glu	Leu	Pro	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys
			20					25					30		
Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Xaa	Asp	Lys
		35					40					45			
Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu
	50					55					60				
Val	Val	Lys	Leu	Xaa	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp
65					70					75					80
Asn	Lys	Lys	Arg	Thr	Ala	Leu	Xaa	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp
				85					90					95	
Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro
			100					105					110		
Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Xaa	Tyr	Asn	Glu	Asp
		115					120					125			
Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser
	130					135					140				
Lys	Asn	Lys	Val												
145															

<210> 378
 <211> 1719
 <212> PRT
 <213> Homo sapien

<400> 378

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
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Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35				40						45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70					75					80
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala

165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
 370 375 380
 Pro Arg Thr His Met Val Glu Val Asp Ser Met Pro Ala Ala Ser
 385 390 395 400
 Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys
 405 410 415
 Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly
 420 425 430
 Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys
 435 440 445
 Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly
 450 455 460
 Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys
 465 470 475 480
 Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys
 485 490 495
 Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp
 500 505 510
 Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu
 515 520 525
 Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp
 530 535 540
 Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln
 545 550 555 560
 Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val
 565 570 575
 Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn
 580 585 590
 Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu

	595						600				605				
Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp
	610					615					620				
Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys
625					630					635					640
Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys
				645					650					655	
Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys
			660					665					670		
Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala
		675				680						685			
Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly
	690					695					700				
Ser	Ala	Ser	Ile	Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser
705					710					715					720
Ser	Gln	Asp	Leu	Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser
				725					730					735	
His	His	His	Val	Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln
			740					745					750		
Met	Leu	Lys	Ile	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys
		755					760					765			
Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser
	770					775					780				
Gln	Pro	Glu	Lys	Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp
785					790					795					800
Arg	Glu	Val	Glu	Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly
				805					810					815	
Leu	Leu	Glu	Asn	Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn
			820					825					830		
Gly	Leu	Ile	Pro	Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe
		835					840					845			
Pro	Asp	Asn	Glu	Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser
	850					855					860				
Asp	Tyr	Lys	Glu	Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn
865					870					875					880
Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu
				885					890					895	
Glu	Gly	Ser	Glu	Asn	Gly	Gln	Pro	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile
			900					905					910		
Glu	Glu	Met	Lys	Lys	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn
		915					920					925			
Leu	Thr	Asn	Gly	Ala	Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro
	930					935					940				
Pro	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu
945					950					955	</				

1025						1030						1035						1040
Gln	Ser	Gln	Leu	Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met			
					1045						1050						1055	
Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met			
					1060						1065						1070	
Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys			
					1075						1080						1085	
Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr			
					1090						1095						1100	
Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys			
1105						1110						1115						1120
Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp			
					1125						1130						1135	
Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His			
					1140						1145						1150	
Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp			
					1155						1160						1165	
Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe	Met	Glu	Pro	Arg	Tyr	His	Val	Arg			
					1170						1175						1180	
Gly	Glu	Asp	Leu	Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val			
1185						1190						1195						1200
Pro	Arg	Lys	Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys			
					1205						1210						1215	
Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly			
					1220						1225						1230	
Asn	Ser	Glu	Val	Val	Lys	Leu	Leu	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn			
					1235						1240						1245	
Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys			
					1250						1255						1260	
Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro			
1265						1270						1275						1280
Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr			
					1285						1290						1295	
Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp			
					1300						1305						1310	
Ile	Glu	Ser	Lys	Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val			
					1315						1320						1325	
His	Glu	Gln	Lys	Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala			
					1330						1335						1340	
Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala			
1345						1350						1355						1360
Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile	Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn			
					1365						1370						1375	
Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu	Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr			
					1380						1385						1390	
Ala	Val	Ser	Ser	His	His	His	Val	Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr			
					1395						1400						1405	
Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu			
					1410						1415						1420	
Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly			
1425						1430												

Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys
 515 520 525
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly
 530 535 540

Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser
 545 550 555 560
 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr
 565 570 575
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln
 580 585 590
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln
 595 600 605
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys
 610 615 620
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile
 625 630 635 640
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 645 650 655

<210> 380

<211> 671

<212> PRT

<213> Homo sapien

<400> 380

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly

260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp
 515 520 525
 Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys
 530 535 540
 His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala
 545 550 555 560
 Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg
 565 570 575
 Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr His
 580 585 590
 Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn
 595 600 605
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile
 610 615 620
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys
 625 630 635 640
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
 645 650 655
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 660 665 670

<210> 381

<211> 251

<212> DNA

<213> Homo sapien

<400> 381

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ccaatatccc	aggagaagca	ttggggagtt	gggggcaggt	gaaggaccca	ggactcacac	180
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caagcagtca	g					251

<210> 382

<211> 3279

<212> DNA

<213> Homo sapiens

<400> 382

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cactgggagg	ggacatcctg	cagaaggtag	gagtgcagca	acacccgctg	caggggaggg	180
gagagccctg	cggcacctgg	gggagcagag	ggagcagcac	ctgcccaggc	ctgggaggag	240
gggcctggag	ggcgtgagga	ggagcgaggg	ggctgcatgg	ctggagttag	ggatcagggg	300
cagggcgcg	gatggcctca	cacaggggaag	agagggcccc	tcctgcaggg	cctcacctgg	360
gccacaggag	gacactgctt	ttcctctgag	gagtcaggag	ctgtggatgg	tgctggacag	420
aagaaggaca	gggcctggct	caggtgtcca	gaggctgtcg	ctggcttccc	tttgggatca	480
gactgcaggg	agggagggcg	gcaggggtgt	ggggggagtg	acgatgagga	tgacctgggg	540
gtggctccag	gccttgcccc	tgccctgggg	ctcaccagc	ctccctcaca	gtctcctggc	600
cctcagtcct	tccctccac	tccatccctc	atctggcctc	agtgggtcat	tctgatcact	660
gaactgacca	taccagccc	tgcccacggc	cctccatggc	tcccaatgc	cctggagagg	720
ggacatctag	tcagagagta	gtcctgaaga	ggtggcctct	gcgatgtgcc	tgtgggggca	780
gcatectgca	gatggtcccg	gccctcatcc	tgctgacctg	tctgcaggga	ctgtcctcct	840
ggaccttgcc	ccttgtgcag	gagctggacc	ctgaagtccc	ctcccatag	gccaagactg	900
gagccttggt	ccctctgttg	gactccctgc	ccatattctt	gtgggagtgg	gttctggaga	960
catttctgtc	tgttcttag	agctgggaat	tgctctcagt	catctgcctg	cgcggttctg	1020
agagatggag	ttgcctaggg	agttattggg	gccaatcttt	ctcactgtgt	ctctcctcct	1080
ttacccttag	ggtgattctg	gggtccact	tgtctgtaat	ggtgtgcttc	aaggtatcac	1140
atcatggggc	cctgagccat	gtgccctgcc	tgaaaagcct	gctgtgtaca	ccaaggtggt	1200
gcattaccgg	aagtggatca	aggacaccat	cgcagccaac	ccctgagtgc	ccctgtccca	1260
cccctacctc	tagtaaattt	aagtccacct	cacgttctgg	catcacttgg	cctttctgga	1320
tgctggacac	ctgaagcttg	gaactcacct	ggccgaagct	cgagcctcct	gagtcctact	1380
gacctgtgct	ttctggtgtg	gagtcaggag	ctgctaggaa	aaggaatggg	cagacacagg	1440
tgtatgccaa	tgtttctgaa	atgggtataa	tttcgtcctc	tccttcggaa	cactggctgt	1500
ctctgaagac	ttctcgctca	gtttcagtga	ggacacacac	aaagacgtgg	gtgacctgt	1560
tgtttgtggg	gtgcagagat	gggaggggtg	gggcccaccc	tggaagagtg	gacagtgaca	1620
caaggtggac	actctctaca	gatcactgag	gataagctgg	agccacaatg	catgaggcac	1680
acacacagca	aggttgacgc	tgtaaacata	gccacgctg	tcctgggggc	actgggaagc	1740
ctagataagg	ccgtgagcag	aaagaagggg	aggatcctcc	tatgttggtg	aaggagggac	1800
tagggggaga	aactgaaagc	tgattaatta	caggaggttt	gttcagggtcc	cccaaaccac	1860
cgtcagattt	gatgatttcc	tagcaggact	tacagaaata	aagagctatc	atgctgtggt	1920
ttattatggt	ttgttacatt	gataggatac	atactgaaat	cagcaaacaa	aacagatgta	1980
tagattagag	tgtggagaaa	acagaggaaa	acttgcagtt	acgaagactg	gcaacttggc	2040
tttactaagt	tttcagactg	gcaggaagtc	aaacctatta	ggctgaggac	cttgtggagt	2100
gtagctgato	cagctgatag	aggaactagc	caggtggggg	cctttccctt	tggatggggg	2160
gcataatccg	cagttattct	ctccaagtgg	agacttacgg	acagcatata	attctccctg	2220
caaggatgta	tgataatatg	tacaaagtaa	ttccaactga	ggaagctcac	ctgatcctta	2280

```

gtgtccaggg tttttactgg ggggtctgtag gacgagtatg gagtacttga ataattgacc 2340
tgaagtcctc agacctgagg ttccctagag ttcaaacaga tacagcatgg tccagagtcc 2400
cagatgtaca aaaacaggga ttcatcacia atcccatctt tagcatgaag ggtctggcat 2460
ggcccaaggc cccaagtata tcaaggcact tgggcagAAC atgccaagga atcaaattgtc 2520
atctcccagg agttattcaa ggggtgagccc ttactttggg atgtacaggc tttgagcagt 2580
gcagggctgc tgagtcaacc ttttattgta caggggatga gggaaagggg gaggatgagg 2640
aagccccctt ggggatttgg tttggtcttg tgatcagggt gtctatgggg ctatccctac 2700
aaagaagaat ccagaaatag gggcacattg aggaatgata ctgagcccaa agagcattca 2760
atcattgttt tatttgctt cttttcacac cattggtgag ggagggatta ccaccctggg 2820
gttatgaaga tggttgaaca cccacacat agcaccggag atatgagatc aacagtttct 2880
tagccataga gattcacagc ccagagcagg aggacgtgc acaccatgca ggatgacatg 2940
ggggatgctc tcgggatttg tgtgaagaag caaggactgt tagaggcagg ctttatagta 3000
acaagacggt ggggcaaact ctgatttccg tgggggaatg tcatggtctt gctttactaa 3060
gttttgagac tggcaggtag tgaaactcat taggctgaga accttgtgga atgcagctga 3120
cccagctgat agaggaagta gccagggtggg agcctttccc agtgggtgtg ggacatatct 3180
ggcaagattt tgtggcactc ctggttacag atactggggc agcaaataaa actgaattct 3240
gttttcagac cttaaaaaaa aaaaaaaaaa aaaagtttt 3279

```

<210> 383

<211> 154

<212> PRT

<213> Homo sapiens

<400> 383

Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
5 10 15

Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
20 25 30

His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
35 40 45

Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
50 55 60

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
65 70 75 80

Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
85 90 95

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
100 105 110

Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
115 120 125

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
130 135 140

Ala Leu Glu Arg Gly His Leu Val Arg Glu
145 150

<210> 384
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 384
 ggatcctcta gagcggcgcg ctactactac taaattcgcg gccgcgtcga cgaagaagag 60
 aaagatgtgt ttgttttgg actctctgtg gtcccttcca atgctgtggg tttccaacca 120
 ggggaagggt cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggg 180
 tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
 acttaacctt gaaatggaaa gtcttgcaat ccatttgca ggatccgtct gtgcacatgc 300
 ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
 tccccaaagac acatcctaaa aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc 420
 ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480
 tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540
 aaaaaaaaaa aaaaaaa 557

<210> 385
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 385
 ttcccagggtg atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60
 gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
 tctcaaagcc atctgctgtc ttcgagtaag gacacatcat cactcctgca ttgttgatca 180
 aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240
 tatcagacag gtccagtttc cgcaccaaca cctgctgggt ccctgtcgtg gtctggatct 300
 ctttgccac caattcccc ttttccacat cccggca 337

<210> 386
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 386
 gggcccgtcta ccggcccagg cccgcctcgc cgagtccctc tccccgggtg cctgcccgcga 60
 gcccgctcgg ccagaggggt gggcgcgggg ctgcctctac cggtggcggt ctgtaactca 120
 gcgaccttgg ccgaaggct ctagcaagga cccaccgacc ccagccgcgg cggcgggcggc 180
 gcggactttg cccgggtgtgt ggggcggagc ggactgctgt tccgcggacg ggcagcgaag 240
 atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtgggtgt aacctcagcc 300

<210> 387
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 387
 gggccgagtc gggcaccaag ggactctttg caggcttcct tcctcggatc atcaaggctg 60
 cccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
 tgaaccagga ccggcttctg ggcggtgaa aggggcaagg aggcaaggac cccgtctctc 180
 ccacggatgg ggagagggca ggaggagacc cagccaagtg ccttttctc agcactgagg 240
 gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggtc gtccctctgg 300

```

gcgggcccagc acttcctcag acacaacttc ttcctgctgc tccagtcgtg gggatcatca 360
cttaccaccacc ccccaagttc aagaccaaatt cttccagctg ccccttctgt gtttccctgt 420
gtttgctgta gctgggcatg tctccaggaa ccaagaagcc ctcagcctgg tgtagtctcc 480
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaaa aaaaaaa 537

```

<210> 388

<211> 520

<212> DNA

<213> Homo sapiens

<400> 388

```

aggataattt ttaaaccaat caaatgaaaa aaacaaacaa acaaaaaagg aaatgtcatg 60
tgagggttaaa ccagtttgca ttcccctaatt gtggaaaaag taagaggact actcagcact 120
gtttgaagat tgctcttctt acagcttctg agaatttgtt tatttcactt gccaaagtga 180
ggaccccttc cccaacatgc cccagcccac ccctaagcat ggtcccttgt caccaggcaa 240
ccaggaaaact gctacttggt gacctacca gagaccagga gggtttggtt agctcacagg 300
acttccccca cccagaaga ttagcatccc atactagact catactcaac tcaactaggc 360
tcatactcaa ttgatggtta ttagacaatt ccatttcttt ctgggttatta taaacagaaa 420
atctttcctc ttctcattac cagtaaaggc tcttggtatc tttctgttgg aatgatttct 480
atgaacttgt cttattttta tgggtgggtt ttttctgtgt 520

```

<210> 389

<211> 365

<212> DNA

<213> Homo sapiens

<400> 389

```

cgttgcccc a gtttgacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60
gaggttaaggc tggatttcag atctgcctgg ttccagccgc agtgtgccct ctgctcccc 120
aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
aagcctatgg ccagctgtct ttgtgttccc tctcaccgc ctgtcctcac agctgagact 240
cccaggaaac cttcagacta ctttctctct ccttcagcaa ggggcgttgc ccacattctc 300
tgagggtcag tggaagaacc tagactccca ttgctagagg tagaaagggg aagggtgctg 360
gggag 365

```

<210> 390

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(221)

<223> n = A,T,C or G

<400> 390

```

tgctcttcca tcttggcccc gacttctctg tcaggaaaagt ggggatggac cccatctgca 60
tacaaggntt ctcattgggtg tggaacatct ctgcttgccg tttcaggaag gcctctggct 120
gctctangag tctgancnga nctgttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gagggagtgg aggagttaag gctggatttc a 221

```

<210> 391

<211> 325

<212> DNA

<220>
 <221> misc_feature
 <222> (1)...(384)
 <223> n = A,T,C or G

<400> 394
 gaacatacat gtcccgccac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
 tgcaaattng gaccgggccca aggctggact gctggagcgt gtgaaggagc tacagggcna 120
 gcaggaggac cgggcttttaa ggagtttttaa gctgagtgtc actgtagacc ccaaatacca 180
 tcccaagatt atcggggagaa agggggcagt aattacccaa atccggttg agcatgacgt 240
 gaacatccag ttctctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
 agggtagcaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
 tgagcagatg gtttctgagg acgt 384

<210> 395
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 395
 ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60
 tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
 tatcagaggt ttcacatttg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
 attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
 ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
 caagttctct ttggaaagcc tgggcatctc ctactacag acctctgacc atgggacggt 360
 gcagcctggt gagaccatcc aatcccaaat aaaatgcac 399

<210> 396
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(403)
 <223> n = A,T,C or G

<400> 396
 tggagttntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctcacagaaa 60
 gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
 agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
 actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
 taggaaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
 gtttagggga gggagtggag gataaaaagaa ggaaaaaaag aagagtgaga aaacctattt 360
 atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403

<210> 397
 <211> 100
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(100)
 <223> n = A,T,C or G

<400> 397
 actagtncag tgtggtggaa ttcgcggccg cgtcgaccta naanccatct ctatagcaaa 60
 tccatccccg ctctggttg gtnacagaat gactgacaaa 100

<210> 398
 <211> 278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(278)
 <223> n = A,T,C or G

<400> 398
 gcggccgcgt cgacagcagt tccgccagcg ctgcgccctg ggtggggatg tgctgcacgc 60
 ccaoctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
 tcaactactgt gcctcgacca gtgaggagag ctggaccgac agcgagggtg actcatcatg 180
 ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240
 ctatggccgc ttcattangt ggctcaacaa ggagaagg 278

<210> 399
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

<400> 399
 acggagggtg aggaagcgc cctgggatcg anaggatggg tcttgnatt gaccnctcn 60
 ggggtgccng catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcgtgggct 120
 ccgagatcga gcgcattggc ctggatcatg accgcatggg ctccgtggag cgcattgggct 180
 ccggcattga gcgcattggc ccgctgggccc tcgaccacat ggccctccanc attgancgca 240
 tgggccagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcatggg 298

<210> 400
 <211> 548
 <212> DNA
 <213> Homo sapiens

<400> 400
 acatcaacta cttcctcatt ttaaggtatg gcagttccct tcatccctt ttctgcctt 60
 gtacatgtac atgtatgaaa tttccttctc ttaccgaact ctctccacac atcacaagg 120
 caaagaacca cacgcttaga agggtaagag ggcaccctat gaaatgaaat ggtgatttct 180
 tgagtctctt ttttccacgt ttaaggggccc atggcaggac ttagagttgc gagttaagac 240
 tgcagagggc tagagaatta tttcatacag gctttgaggc caccatgtc acttatccc 300
 tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360
 gttggcccca taattctggg cctttgttgt ttgttttaac tacttgggca tcccaggaag 420


```
ctttccagtg atctcctacc atgggcccc ctcttgggat caagccccctc ccaggccctg 480
tccccagccc ctcttgcccc agcccacccg cttgccttgg tgctcagccc tcccattggg 540
agcaggtt 548
```

```
<210> 401
<211> 355
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G
```

```
<400> 401
actgtttcca tggtatgttt ctacacattg ctacctcagt gctcctggaa acttagcttt 60
tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgtcc atgggtggcg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggt 300
cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggn tctgc 355
```

```
<210> 402
<211> 407
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(407)
<223> n = A,T,C or G
```

```
<400> 402
atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag cagggtgttc actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaaggtggtc ctgacctttg ataaatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctcccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407
```

```
<210> 403
<211> 303
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G
```

```
<400> 403
cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaattcc aggcacccaaa 60
toctaagcaa gagccatggc atggtgaaaa tgcaaaagga gagtctggcc aatctacaaa 120
```

```

tagagaacaa gacctactca gtcgatgaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
tcttaacaac gaccgaaacc cattattttac ataaacctcc attcggtaac catgttgaaa 300
gga                                                    303

```

```

<210> 404
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<400> 404
aagtgttaact tttaaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60
attgttaatg cactcattta cctttacatg gtgaaagtcc tctcttgatc ctacaaacag 120
acattttcca ctcgtgtttc catagtgtgt aagtgtatca gatgtgttgg gcatgtgaat 180
ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt                    225

```

```

<210> 405
<211> 334
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(334)
<223> n = A,T,C or G

```

```

<400> 405
gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgaggggtt tctggaggac 60
ttcaatacac ctccccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120
tcatccccat cccatgccaa aggaagacc cccctccttg gctcacagcc ttctctaggc 180
ttcccagtgc ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtgt 240
ctggtgcggt tgtgcctcca gcttctgtc agtgcttcat ggacagtgtc cagcccatgt 300
cactctccac tctctcanng tggatccac ccct                    334

```

```

<210> 406
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

```

```

<400> 406
tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120
acnaaacaca aattttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant                    216

```

```

<210> 407
<211> 413
<212> DNA
<213> Homo sapiens

```

```

<400> 407
gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atggggccagg ttctgtagta aag          413

```

```

<210> 408
<211> 183
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(183)
<223> n = A,T,C or G

```

```

<400> 408
ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tncttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tattttactcc ttcttggtta cccatgtact 180
ntt                                     183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 409
cccacgcatg ataagctctt tattttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttcccagt gccccagga cagcgtgggc tatgtttaca gcgctcctt gctggggggg 240
ggccttatgc                                     250

```

```

<210> 410
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 410

```

The sequence is a DNA sequence.

```

ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatttgc aggatccgtc tgtgcacatg cctctgtaga gagcagcatt 120
cccagggacc ttggaaacag ttggcactgt aagggtgctt ctccccaaga cacatcctaa 180
aagggtgttg aatggtgaaa accgcttcct tctttattgc cccttcttat ttatgtgaac 240
nactggttgg ctttttttgn atctttttta aactggaaa ttcaattgng aaaatgaata 300
tcntgc 306

```

```

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

```

```

<400> 411
agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaattgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggngaggcaa a 261

```

```

<210> 412
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

```

```

<400> 412
gttcaatggt acctgacatt tctacaacac cccactcacc gatgtattcg ttgcccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgcccagg aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tctactggta cattgaattc caaaactacc cangcaatta ccagccaac 240
a 241

```

```

<210> 413
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

```

```

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtac cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120

```

```
<220>  
<221> misc_feature  
<222> (1)...(303)
```

<223> n = A,T,C or G

<400> 417

```
nagtcttcag gccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
gtgggaaagg ctttactctg agttcaaata ttcaagccca tcagagagtc cacactggag 120
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240
tcantcaaag ttcgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
agt 303
```

<210> 418

<211> 328

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 418

```
tttttggcgg tgggtggggca gggacggggac angagtctca ctctgttgcc caggctggag 60
tgcacaggca tgatctcggc tcaactacaac ccctgcctcc catgtccaag cgattcttgt 120
gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
gtatttttag tagagacagg gtttcacccat gttggccagg ctggtctcaa actcctnacc 240
tcagnggtca ggctggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtgctan gattacaggc cgtgagcc 328
```

<210> 419

<211> 389

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(389)

<223> n = A,T,C or G

<400> 419

```
cctcctcaag acggcctgtg gtccgcctcc cggcaaccaa gaagcctgca gtgccatattg 60
accctgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120
cttgtttctt ctctgtggct ccattcatag cacagttgtt gcaactgagga ttgtgcaggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggg gtgccaggca 240
ccggttctcc agccaccaac ctcaactcgt cccgcaaagt gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtctt ctgctctatc agccatcacg 360
tggcagccac tcnngctgtg tcgacgcgg 389
```

<210> 420

<211> 408

<212> DNA

<213> Homo sapiens

<400> 420

```
gttctctcta actcctgcc aacacagctc tctcaacat gagagctgca cccctcctcc 60
```

```

tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgg gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagccccg 408

```

```

<210> 421
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 421
gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcttggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacaggtct tttttgggtc cttcttctcc accacnata acttgcatgc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacaggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcctgtc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttcct gg 352

```

```

<210> 422
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 422
atgccaccat gctggcaatg cagcgggagg tccaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gogatagcaa ggtgcggcgg atcgcggcgg cgtcaatcct ggccaaggct agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggct 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337

```

```

<210> 423
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

```

```

<400> 423
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggcctggcct gggagccctg tgccctacta aagcncatta gattatccat 120
tcaactgacag aacaggtctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacaggtgt anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300

```

tccgagttta

310

<210> 424

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(370)

<223> n = A,T,C or G

<400> 424

```

gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
cactgacaga acaggtcttt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180
ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240
ggttgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
tccgtcgacg                                     370

```

<210> 425

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(216)

<223> n = A,T,C or G

<400> 425

```

aattgctatn ntttattttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaatga 60
taacaacnca acatcaaggn aaananaaca ggaatggntg actntgcataaatnggccga 120
anattatcca ttatnttaag ggttgacttc aggntacagc acacagacaa acatgcccag 180
gaggntntca ggaccgctcg atgtnttntg aggagg                                     216

```

<210> 426

<211> 596

<212> DNA

<213> Homo sapiens

<400> 426

```

cttccagtga ggataaccct gttgccccgg gccgagggttc tccattaggc tctgattgat 60
tggcagtcag tgatggaagg gtgttctgat cattccgact gccccaaagg tgcgtggcca 120
gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatggtga 180
gctgtccttg tattttgatt aacctaattg ccttcccagc acgactcgga ttcagctgga 240
gacatcacgg caacttttaa tgaatgatt tgaagggcca ttaagaggca cttcccgтта 300
ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420
ggtggatggc cttttcagct ttaacccaat ttgcaactgcc ttggaagtgt agccaggaga 480
atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggtc tactgcctga 540
gtcccgcctgg tcccatccca ggaccttcca tcggcgagta cctggggagcc cgtgct 596

```



```
<220>
<221> misc_feature
<222> (1)...(507)
<223> n = A,T,C or G
```

```

<400> 430
cttatacncaa tggggctccc aaacttggt gtgcagtga aactccggg gaattttgaa 60
gaacactgac acccatcttc caccocgaca ctctgattta attgggctgc agtgagaaca 120
gagcatcaat ttaaaaagct gccagaaatg ttntcctggg cagcgttggt atctttgccn 180
ccttcgtgac tttatgcaat gcatcatgct atttcatacc taatgaggga gttccaggag 240
attcaaccag gatgtttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
caagaaggag gactgcaagt atatcggtgt ggagaagaag gacccaaaaa agacctgttc 360
tgtcagtga tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
cattctcctc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaa 507

```

```

<210> 431
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

```

```

<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtcctgggtt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgttgtagg taaaatgtac aatttctgga tctatgcaga cattgaaggt 360
gcaatgagtc tggcttttac tctgctgttt ct 392

```

```

<210> 432
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A,T,C or G

```

```

<400> 432
ggtatcanta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120
ngtagtccaa gctctcgga gtccagccac tgngaaacat gctcccttta gattaacctc 180
gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240
attctgttgc ttctggggca ttctcttgng atgcagagga ccaccacaca gatgacagca 300
atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgtag aggaccggga 360
acaacgtata gaacactgga gtccttt 387

```

```

<210> 433
<211> 281
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> (1)...(281)
 <223> n = A,T,C or G

<400> 433
 ttcaactagc anagaanact gcttcagggn gtgtaaaatg aaaggcttcc acgcagttat 60
 ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
 caggcnctat ttgggttggc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
 atcgccgtgg ctattcctcn ttgntattac accagnagg ntctctgtnt gccactggt 240
 tnnaaaaccg ntatacaata atgatagaat aggacacaca t 281

<210> 434
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 434
 ttttaaaata agcatttagt gctcagtccc tactgagtac tctttctctc cctcctctg 60
 aatttaattc tttcaacttg caatttgcaa ggattacaca tttcactgtg atgtatattg 120
 tgttgcaaaa aaaaaaaagt gtctttgttt aaaattactt ggtttgtgaa tccatcttgc 180
 tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
 agctagtcta tcagcatctg acaggtgaat tggatgggtc tcagaaccat ttcaccaga 300
 cagcctgttt ctatcctgtt taataaaatta gtttgggttc tctacatgca taacaaaccc 360
 tgctccaatc tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccaaac 420
 tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtc 480
 ttta 484

<210> 435
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 435
 gcgcgcgtca gagcaggtca ctttctgcct tccacgtcct ccttcaagga agccccatgt 60
 gggtagcttt caatatcgca ggttcttact cctctgcctc tataagctca aaccaccaa 120
 cgatcgggca agtaaaccct ctccctcgcc gacttcggaa ctggcgagag ttcagcgag 180
 atgggcctgt ggggaggggg caagatagat gagggggagc ggcaggtgtc ggggtgacct 240
 cttggagaga ggaaaaaggc cacaagaggg gctgccaccg ccactaacgg agatggccct 300
 ggtagagacc tttgggggtc tggaacctct ggactcccca tgccttaact cccacactct 360
 gctatcagaa acttaaactt gaggattttc tctgtttttc actcgcaata aattcagagc 420
 aaac 424

<210> 436
 <211> 667
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(667)
 <223> n = A,T,C or G

<400> 436

```

accttgggaa nactctcaca atataaaggg tcttagactt tactccaaat tccaaaaagg 60
tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataagggtgc 120
agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cggtaacgt ctgtgcttcg aatataaacc 360
tgttcatgtt tataggactc attcaagaat tttctatata tctttcttat atactctcca 420
agttcataat gctgctccat gcccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaagggt tcaatgggac ttcggtctcc atgccgaaac 540
accaaagtca caaacttcaa ctcttggtgt agtaccttc ggtctagcca gaaaaaaagc 600
agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660
tgttgag                                     667

```

<210> 437

<211> 693

<212> DNA

<213> Homo sapiens

<400> 437

```

ctacgtctca accctcatTT ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaag ctggattggc acactaggac tctaccatac cgggttttgt 120
taaagctcag gttaggaggc tgataagctt ggaagggaact tcagacagct ttttcagatc 180
ataaaagata attcttagcc catgtttctt tccagagcag acctgaaatg acagcacagc 240
aggtactcct ctattttcac cctcttTgt tctactctct ggcagtcaga cctgtggggag 300
gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
catttctcca ggttaccccta ggtgtcacta ttgggggggac agccagcatc tttagctttc 420
atttgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acacctaact gctgttgctc ctgaggtggg gaaagacaga tatagagctt acagtattta 540
tcctatttct aggcactgag ggctgtgggg taccttTgtg tgccaaaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
ctgcatcatg tgctctcttg gctgaaaatg acc                                     693

```

<210> 438

<211> 360

<212> DNA

<213> Homo sapiens

<400> 438

```

ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgagggag ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaaag acaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctggtgg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

```

<210> 439

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 439
gttcctnnta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag t 431

<210> 440
<211> 523
<212> DNA
<213> Homo sapiens

<400> 440
agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaagtgc tgaaatggaa cagatttcaa aaaaaaacc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaattaa aacctctttg tgtcccttgg tcttggaaca tttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaat acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcatctga tgagaacaag cta 523

<210> 441
<211> 430
<212> DNA
<213> Homo sapiens

<400> 441
gttcctccta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180
gtcccattga caoctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag 430

<210> 442
<211> 362
<212> DNA
<213> Homo sapiens

<400> 442
ctaaggaatt agtagtggtc ccatcacttg tttggagtgt gctatttctaa aagattttga 60
tttctlggaa tgacaattat attttaactt tgggtgggga aagagttata ggaccacagt 120
cttcacttct gatacttgta aattaatctt ttattgcact tgttttgacc attaagctat 180
atgttttagaa atggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360

tc

362

<210> 443
 <211> 624
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(624)
 <223> n = A,T,C or G

<400> 443
 tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
 ttgaaagaat taaattcaga ggaggggaga gaaagagtac tcagtaggga ctgagcacta 120
 aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
 tgctggctag tactccggtc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
 cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaaacttg cttcctgttt 300
 tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaatgaac 360
 taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtac 420
 atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgctaata 480
 agtacagaga gagggcactt aaaccaacta agggcctgga ggggaagggtt cctggaaaga 540
 ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tattttaaact 600
 ttgtccctat ctgctaaaca gatc 624

<210> 444
 <211> 425
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(425)
 <223> n = A,T,C or G

<400> 444
 gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
 gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
 ttcatgtgcta tagcataaca caaaatttgc ataagtgggtg gtcagcaaat ccttgaatgc 180
 tgcttaaatgt gagagggttg taaaatcctt tgtgcaaacac tctaactccc tgaatgtttt 240
 gctgtgtctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
 cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacacctg gaagagccaa 360
 ggaggcacca gggcataagt gagtagactt atgggtcgacg cggccgcgaa tttagtagta 420
 gtaga 425

<210> 445
 <211> 414
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n = A,T,C or G

```

<400> 445
catgtttatg nttttggatt actttgggca cctagtgttt ctaaactcgtc tatcattctt 60
ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120
tgaaattctt tgcattgtggc agattattgg atgtagtctt ctttaactag catataaatc 180
tgggtgtgtt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240
aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300
ggatttttat aatcctactc acaaagtact aggccttctc tcttgtattt tgaagcagtg 360
tgggtgctgg attgataaaa aaaaaaaaaa tgcagcggc cgcaattta gtag 414

```

```

<210> 446
<211> 631
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G

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<400> 446
acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60
tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcagggtgtg 120
atgctgggta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180
ccggtcctgt acgatttcag tatgtcttaa tgcagctgt gattggaaca attcagattg 240
ctgtcatctg tgtggtggtc ctctgcatca caagggccaa actttaggta atagcattgg 300
actgagattt gtaaaacttt caaccttcca ggaaatgccc cagaagcaac agaattcaca 360
gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420
taatctaaag ggagcatgtt tcacagtggc tggactaccg agagcttgga ctacacaata 480
cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccttg catttggtgt 540
aatctacacc aatgaaaaca tgtactacag ctatatttga ttatgtatgg atatatttga 600
aatagtatac attgtcttga tgttttttct g 631

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<210> 447
<211> 585
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

```

```

<400> 447
ccttgggaaa antntcacia tataaagggt cgtagacttt actccaaatt ccaaaaagggt 60
cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120
gcctcttctg gaattcctct gatttcaaag tctcactctc aagttcttga aaacgagggc 180
agttcctgaa aggcaggtat agcaactgat ctccagaaaag aggaactgtg tgcaccggga 240
tgggctgccg gagtaggata ggattccaga tgotgacacc ttctggggga aacagggtctg 300
ccaggtttgt catagcactc atcaaagtcc ggtcaacgtc tgtgcttcga atataaacct 360
gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420
gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaagggtg caatgggact tcggtctcca tgccgaaaca 540
ccaaagtcac aaacttcaac tccttggtca gtacacttcg gtcta 585

```

<210> 448
 <211> 93
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(93)
 <223> n = A,T,C or G

<400> 448
 tgctcgtggg tcattctgan nnccgaactg accntgccag ccctgccgan gggccnccat 60
 ggctccctag tgccctggag agganggggc tag 93

<210> 449
 <211> 706
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(706)
 <223> n = A,T,C or G

<400> 449
 ocaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60
 ttctgancac cgaactgacc atgccagccc tgccgatggt cctccatggc tccctagtgc 120
 cctggagagg aggtgtctag tcagagagta gtcctggaag gtggcctctg ngaggagcca 180
 cggggacagc atcctgcaga tggtcgggag cgtcccatc gccattcagg ctgcgcaact 240
 gttgggaagg gcgatcggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300
 gtgctgaag gcaattgaat tgggtaacgc caggggtttc ccagtcncga cgttgtaaaa 360
 cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcattgcacg 420
 cgtaacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgcgt 480
 cgacgtggga tccnactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
 cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
 aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncacca 660
 gcatggatga cagagtgaat ctccatctta aaaaaaaaaa aaaaaa 706

<210> 450
 <211> 493
 <212> DNA
 <213> Homo sapiens

<400> 450
 gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
 acagttttta aaggtaaaaa aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
 aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcag 180
 agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
 caagtcagggt agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300
 agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360
 tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420
 tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcggcc 480
 gcgaatttag tag 493

<210> 451
 <211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 451
 gggcgcgctcc cattcgccat tcaggctgcg caactgttgg gaagggcgat cgggtgcgggc 60
 ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120
 aacgccaggg ttttccagc cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180
 tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240
 gcggccgcct actactacta aattcgcggc cgcgtcgacg tgggatccnc actgagagag 300
 tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct ggaggcacia 360
 cgcncagac actcacagct actcaggagg ctgagaacag gttgaacctg ggaggtggag 420
 gttgcaatga gctgagatca ggccnctgcn ccccgacatg gatgacagag tgaaactcca 480
 tcttaaaaaa aaaaaaaaaa a 501

<210> 452
 <211> 51
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(51)
 <223> n = A,T,C or G

<400> 452
 agacgggtttc accnttacaa cnccttttag gatgggnntt ggggagcaag c 51

<210> 453
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(317)
 <223> n = A,T,C or G

<400> 453
 tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60
 acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatggttc tcagaacctat 120
 ttcaccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180
 taacaaaacc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240
 cccaccaaac tttatTTTTT tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
 taccatgtc tttatta 317

<210> 454

<211> 231
 <212> DNA
 <213> Homo sapiens

<400> 454
 ttcgaggtac aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
 taagccacgc cacgctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
 agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
 ccttcctttt tcagtgttcc aaagctcctc acaatttcat gaacaacagc t 231

<210> 455
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 455
 taccaaagag ggcataataa tcagtctcac agtagggttc accatcctcc aagtgaaaaa 60
 cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
 gtttcaacgc attgatgact tctccaagga tcttcctttg gcacgcacca cattcagggg 180
 caaagaattt ctcatagcac agctcacaat acagggtctc tttctcctct a 231

<210> 456
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 456
 ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
 ttccattcag tattatcggt attattcttg gagaaacct gtctgtttac tgtaaccttt 120
 tgactcaaa ttcctttatc aggaataact acatagccac tatttacaaa gccattggaa 180
 cctttttatt tgggtgcagct gctagtcagt ccctgactga cattgccaag t 231

<210> 457
 <211> 231
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(231)
 <223> n = A,T,C or G

<400> 457
 cgaggtaccc aggggtctga aaatctctnn ttitantagtc gatagcaaaa ttgttcatca 60
 gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catacagttt 120
 tatttgattt tatttagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
 agttgtctaa atcgaatgct catttctctc gaggtgtcgc tggcttttgt g 231

<210> 458
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 458

aggtctggtt	ccccccactt	ccactcccct	ctactctctc	taggactggg	ctgggccaaag	60
agaagagggg	tggttagggg	agccgttgag	acctgaagcc	ccaccctcta	ccttccttca	120
acaccctaac	cttgggtaac	agcatttgga	attatcattt	gggatgagta	gaatttccaa	180
ggtcctgggt	taggcatttt	ggggggccag	accccaggag	aagaagattc	t	231

<210> 459

 $\langle 211 \rangle$ 231

<212> DNA

<213> Homo sapiens

<400> 459

ggtaccgag	ctcgcgtgaca	cagagaaacc	ccaacgcgag	gaaaggaatg	gccagccaca	60
ccttcgcgaa	acctgtggtg	gccaccagt	cctaacggga	caggacagag	agacagagca	120
gccctgcact	gttttcctc	caccacagcc	atcctgtccc	tcattggtc	tgtgttttc	180
actatacaca	gtcaccgtec	caatgagaaa	caagaaggag	cacctccac	a	231

<210> 460

$\langle 211 \rangle$ 231

<212> DNA

<213> Homo sapiens

<400> 460

gcaggtataa	catgctgcaa	caacagatgt	gactaggaac	ggccggtgac	atggggaggg	60
cctatcaccc	tattcttggg	ggctgcttct	tcacagtgat	catgaagcct	agcagcaa	120
cccacctccc	cacacgcaca	cggccagcct	ggagcccaca	gaagggtcct	cctgcagcca	180
gtggagcttg	gtccagcctc	cagtcacccc	ctaccaggct	taaggataga	a	231

<210> 461

<211> 231

<212> DNA

<213> Homo sapiens

<400> 461

cgaggtttga	gaagctctaa	tgtgcagggg	agccgagaag	caggcgccct	agggagggtc	60
cgctgtgctc	cagaagagtg	tgtgcatgcc	agaggggaaa	caggcgccctg	tgtgtcctgg	120
gtggggttca	gtgaggagtg	ggaaatttgt	tcagcagaac	caagccgttg	ggtgaataag	180
agggggattc	catggcactg	atagagccct	atagtttcag	agctgggaat	t	231

<210> 462

<211> 231

<212> DNA

<213> Homo sapiens

<400> 462

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aggtaccctc attgtagcca tgggaaaatt gatgttcagt ggggatcagt gaattaaatg 60
gggtcatgca agtataaaaa ttaaaaaaaaa aagacttcat gcccaatctc atatgatgtg 120
gaagaactgt tagagagacc aacagggtag tgggttagag atttcagag tttacattt 180
tctagaggag gtatttaatt tcttctcact catccagtgt tgtatttagg a      231

```

<210> 463

 $\langle 211 \rangle$ 231

<212> DNA

<213> Homo sapiens

<400> 463
 tactccagcc tggtagacaga gcgagaccct atcaccgccc cccaccccac caaaaaaaaaa 60
 actgagtaga cagggtgtcct cttggcatgg taagtcttaa gtcccctccc agatctgtga 120
 catttgacag gtgtcttttc ctctggacct cgggtgtcccc atctgagtga gaaaaggcag 180
 tggggaggtg gatcttccag tcgaagcggg atagaagccc gtgtgaaaag c 231

<210> 464
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 464
 gtactctaag attttatcta agttgccttt tctgggtggg aaagttaaac cttagtgtact 60
 aaggacatca catatgaaga atgtttaagt tggagggtggc aacgtgaatt gcaaacaggg 120
 cctgcttcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180
 ggtgccagcg caccagctag atgctctgta acttctaggg cccattttcc c 231

<210> 465
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 465
 catgttggtg tagctgtggt aatgctggct gcatctcaga cagggttaac ttcagctcct 60
 gtggcaaatt agcaacaaat tctgacatca tatttatggg ttctgtatct ttgttgatga 120
 aggatggcac aatttttgct tgtgttcata atatactcag attagttcag ctccatcaga 180
 taaactggag acatgcagga cattagggta gtgttgtagc tctggtaatg a 231

<210> 466
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 466
 caggtagctc tttccattgg atactgtgct agcaagcatg ctctccgggg tttttttaat 60
 ggccttcgaa cagaacttgc cacataccca ggtataatag tttctaacat ttgccagga 120
 cctgtgcaat caaatattgt ggagaattcc ctagctggag aagtcacaaa gactataggc 180
 aataatggag accagtccca caagatgaca accagtcgtt gtgtgcggct g 231

<210> 467
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 467
 gtacaccctg gcacagtcca atctgaactg gttcggcact catctttcat gagatggatg 60
 tgggtggcttt tctccttttt catcaagact cctcagcagg gagcccagac cagcctgcac 120
 tgtgccttaa cagaaggctc tgagattcta agtgggaatc atttcagtga ctgtcatgtg 180
 gcatgggtct ctgcccagc tcgtaatgag actatagcaa ggcggctgtg ggacgtcagt 240
 tgtgacctgc tgggcctccc aatagactaa caggcagtcg cagttggacc caagagaaga 300
 ctgcagcaga c 311

<210> 468
 <211> 3112

<212> DNA

<213> Homo sapiens

<400> 468

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cattgtgttg ggagaaaaac agaggggaga tttgtgtggc tgcagccgag ggagaccagg 60
aagatctgca tgggtgggaag gacctgatga tacagagttt gataggagac aattaaaggc 120
tggaaggcac tggatgcctg atgatgaagt ggactttcaa actggggcac tactgaaacg 180
atgggatggc cagagacaca ggagatgagt tggagcaagc tcaataacaa agtggttcaa 240
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gtgaatgtgg atgattggat gatcatttct catctctgag cctcagggtc cccatccata 360
aaatgggata cacagtatga tctataaagt gggatatagt atgatctact tcaactgggtt 420
atlttgaagga tgaattgaga taatttatltt cagggtgccta gaacaatgcc cagatttagta 480
catttgggtgg aactgagaaa tggcataaca ccaaatttaa tatatgtcag atgttactat 540
gattatcatt caatctcata gttttgtcat ggoccaaattt atcctcactt gtgcctcaac 600
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tttgtccttg tagttaattg aaagaaatag ggcactcttg tgagccactt tagggttcac 3060
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<210> 469
<211> 2229
<212> DNA
<213> Homo sapiens

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<400> 469
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tgatttgcca aaattctaaa gcgcactcac catgaaatgg ataaagggtta cctttgggga 180
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tgtcatcttg ctgtttctag tgatgttaat tatctccatt tcagcagatg tgtggcctca 1740
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<210> 470
<211> 2426
<212> DNA
<213> Homo sapiens

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<400> 470

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<210> 471

<211> 812

<212> DNA

<213> Homo sapiens

<400> 471

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<210> 472

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(515)

<223> n = A,T,C or G

<400> 472

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<210> 473

<211> 5829

<212> DNA

<213> Homo sapiens

<400> 473

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<210> 474

<211> 1594

<212> DNA

<213> Homo sapiens

<400> 474

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<210> 475
<211> 2414
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (33)
<223> n=A,T,C or G

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cagttactca tgacgtctcc atccaggact gaggggggca tccttctcca tctaggactg 2220
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<210> 476

<211> 3434

<212> DNA

<213> Homo sapiens

<400> 476

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gccagtggtg ccaccaggag gacttgtgct tctgtggccc aggccagacg tagaatttga 240
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```

<210> 477

<211> 140

<212> PRT

<213> Homo sapiens

<400> 477

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Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
      5                      10                      15

His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
      20                      25                      30

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
      35                      40                      45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
      50                      55                      60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
      65                      70                      75                      80

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
      85                      90                      95

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
      100                     105                     110

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
      115                     120                     125

Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
      130                     135                     140

```

<210> 478

<211> 143

<212> PRT

<213> Homo sapiens

<400> 478

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Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
              5              10              15

Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
              20              25              30

Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
              35              40              45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
              50              55              60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
              65              70              75              80

Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
              85              90              95

His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
              100              105              110

Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
              115              120              125

His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
              130              135              140

```

<210> 479

<211> 222

<212> PRT

<213> Homo sapiens

<400> 479

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Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
              5              10              15

Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
              20              25              30

Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr
              35              40              45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
              50              55              60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
              65              70              75              80

Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser
              85              90              95

```

His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val
100 105 110

Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val
115 120 125

Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr
130 135 140

Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His
145 150 155 160

Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala
165 170 175

Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp
180 185 190

Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala
195 200 205

Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val
210 215 220

<210> 480

<211> 144

<212> PRT

<213> Homo sapiens

<400> 480

Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val
5 10 15

Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr
20 25 30

Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
35 40 45

Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
50 55 60

Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
65 70 75 80

Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
85 90 95

Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
100 105 110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu

100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480

115 120 125
 Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
 130 135 140

<210> 481
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 481
 Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
 5 10 15

Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
 20 25 30

Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
 35 40 45

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
 50 55 60

Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
 65 70 75 80

Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
 85 90 95

Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
 100 105 110

Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
 115 120 125

Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
 130 135 140

Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
 145 150 155 160

Trp Leu Ser Arg Gly Arg Pro
 165

<210> 482
 <211> 143
 <212> PRT
 <213> Homo sapiens

115 120 125
 Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
 130 135 140
 <210> 481
 <211> 167
 <212> PRT
 <213> Homo sapiens
 <400> 481
 Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
 5 10 15
 Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
 20 25 30
 Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
 35 40 45
 Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
 50 55 60
 Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
 65 70 75 80
 Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
 85 90 95
 Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
 100 105 110
 Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
 115 120 125
 Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
 130 135 140
 Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
 145 150 155 160
 Trp Leu Ser Arg Gly Arg Pro
 165
 <210> 482
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 482

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Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val
      5                      10                      15

Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
      20                      25                      30

Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
      35                      40                      45

Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
      50                      55                      60

Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
      65                      70                      75                      80

Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
      85                      90                      95

Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
      100                     105                     110

Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
      115                     120                     125

Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
      130                     135                     140

```

<210> 483

<211> 143

<212> PRT

<213> Homo sapiens

<400> 483

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Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
      5                      10                      15

Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
      20                      25                      30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
      35                      40                      45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
      50                      55                      60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
      65                      70                      75                      80

Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg
      85                      90                      95

Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val

```

100 105 110
 Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val
 115 120 125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys
 130 135 140

<210> 484
 <211> 30
 <212> PRT
 <213> Homo Sapien

<400> 484
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
 20 25 30

<210> 485
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 485
 gggaagctta tcacctatgt gccgcctctg c

31

<210> 486
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 486
 gcgaattctc acgctgagta tttggcc

27

<210> 487
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 487
 cccgaattct tagctgccca tccgaacgcc ttcac

36

<210> 488
 <211> 33

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 488
 gggaagcttc ttccccggct gcaccagctg tgc

33

<210> 489
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 489
 Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
 1 5 10 15
 Ser Val Ala

<210> 490
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 490
 Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
 1 5 10 15
 Leu Ser His Ser
 20

<210> 491
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 491
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Leu
 1 5 10 15
 Thr Gly Phe Thr
 20

<210> 492
 <211> 20
 <212> PRT

<220>
<223> Made in a lab

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<210> 497
<211> 20
<212> PRT
<213> Artificial Sequence
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<220>
<223> Made in a lab

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<210> 498
<211> 20
<212> PRT
<213> Artificial Sequence
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<220>
<223> Made in a lab

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<210> 499
<211> 20
<212> PRT
<213> Artificial Sequence
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<220>
<223> Made in a lab

<400> 499
Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
1 5 10 15
Ser Ala Phe Leu

20

<210> 500

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 500

Leu	Asp	Ser	Ala	Phe	Leu	Leu	Ser	Gln	Val	Ala	Pro	Ser	Leu	Phe	Met
1				5				10						15	

Gly	Ser	Ile	Val												
			20												

<210> 501

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 501

Phe	Met	Gly	Ser	Ile	Val	Gln	Leu	Ser	Gln	Ser	Val	Thr	Ala	Tyr	Met
1				5				10						15	

Val	Ser	Ala	Ala												
			20												

<210> 502

<211> 414

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(414)

<223> n=A,T,C or G

<400> 502

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tcagtcggtg	gaggagtccg	ggggtcgcct	ggtcacgcct	gggacacctt	tgacantcac	120
ctgtagagtt	tttggaatng	acctcagtag	caatgcaatg	agctgggtcc	gccaggctcc	180
agggaagggg	ctggaatgga	tcggagccat	tgataattgt	ccacantacg	cgacctgggc	240
gaaaggccga	ttnatnatnt	ccaaaacctn	gaccacgggtg	gatttgaaaa	tgaccagtcc	300
gacaaccgag	gacacggcca	cctatttttg	tggcagaatg	aatactggta	atagtggttg	360
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<210> 503

<211> 379

<212> DNA

<213> Homo Sapien

<400> 503

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<210> 504
<211> 19
<212> PRT
<213> Artificial Sequence
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<400> 504

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<210> 505
<211> 20
<212> PRT
<213> Artificial Sequence
```

<400> 505

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<210> 506
<211> 407
<212> DNA
<213> Homo Sapien
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<400> 506

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tcgctggagg	agtcggggg	tcgcctggtc	acgcctgga	caccttgac	actcactgc	120
accgtctctg	gatttccct	cagtagcaat	gcaatgatc	gggtccgcc	ggctccagg	180
aaggggctgg	aatacatcg	atacattagt	tatgttgta	ggcatacta	cgcgactgg	240
gtgaaaggcc	gattcaccat	ctccaaaacc	tcgaccacg	tggatctgag	aatgaccagt	300

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ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg 360
ttgtggggcc caggcaccct ggtcaccgtc tcctcagggc aacctaa 407

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<210> 507
<211> 422
<212> DNA
<213> Homo Sapien

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<400> 507
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acagtctctg gattctccct cagcaactac gacctgaact ggtccgccca ggctccaggg 180
aaggggctgg aatggatcgg gatcattaat tatgttggta ggacggacta cgcgaactgg 240
gcaaaaggcc ggttcaccat ctccaaaacc tcgaccaccg tggatctcaa gatcgccagt 300
ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360
ggtcctgtct tgcgcctctg gggcccaggc accctgggtc ccgtctcctt agggcaacct 420
aa 422

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<210> 508
<211> 411
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(411)
<223> n=A,T,C or G

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<400> 508
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cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccaggga 180
aggggctgga atggatcgga atcattggta ctctgggtga cacatactac gcgaggtggg 240
cgaaaggccg attcaccatc tccaaaacct cgaccacggg gcatntgaaa atcnccagtc 300
cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360
ctggttatta taaaatctgg ggcccaggca ccctgggtcac cgtctccttg g 411

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<210> 509
<211> 15
<212> PRT
<213> Artificial Sequence

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<220>
<223> Made in a lab

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<400> 509
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1           5           10          15

```

```

<210> 510
<211> 15
<212> PRT
<213> Artificial Sequence

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<220>

<223> Made in a lab

<400> 510

Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile
1				5					10					15

<210> 511

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 511

Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly	Gly	Gly	Gln	Asp	Gln	Lys
1				5					10					15

<210> 512

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 512

Asp	Ser	Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu
1				5					10					15

<210> 513

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 513

Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Asx	Val	Tyr	Thr	Asn	Leu
1				5					10					15

<210> 514

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 514

Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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1              5              10              15

<210> 515
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 515
Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg
1              5              10              15

<210> 516
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 516
Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln
1              5              10              15

<210> 517
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 517
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met
1              5              10              15

<210> 518
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 518
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
1              5              10              15

<210> 519
<211> 17
<212> PRT
<213> Artificial Sequence

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<220>

<223> Made in a lab

<400> 519

Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	Asn	Tyr	Asp	Glu	Gly	Cys
1				5				10						15	
Gly															

<210> 520

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 520

Val	Gly	Glu	Gly	Leu	Tyr	Gln	Gly	Val	Pro	Arg	Ala	Glu	Pro	Gly	Thr
1				5					10					15	
Glu	Ala	Arg	Arg	His	Tyr	Asp	Glu	Gly							
			20					25							

<210> 521

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 521

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5				10						15	
Pro	Pro	Pro	Pro	Ala											
				20											

<210> 522

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 522

Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys	Asp	Tyr	Gly	Ser	Gln	Glu	Asp
1				5					10					15	
Phe	Thr	Gln	Val												
			20												

<210> 523

<211> 254

<212> PRT
 <213> Artificial Sequence
 <220>
 <223> Made in a lab
 <220>
 <221> VARIANT
 <222> (1)...(254)
 <223> Xaa = any amino acid

<400> 523

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5				10					15		
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
			20					25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
			35				40					45			
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50					55					60				
Trp	Val	Leu	Ser	Ala	Thr	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65					70				75						80
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
			85						90					95	
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
			100					105					110		
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
		115				120						125			
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
		130				135					140				
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145				150						155					160
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu
			165					170						175	
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
			180					185					190		
Ala	Gly	Gly	Gly	Gln	Xaa	Gln	Xaa	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
		195				200						205			
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
	210					215					220				
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
225				230						235					240
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
			245						250						

<210> 524
 <211> 765
 <212> DNA
 <213> Homo sapien

<400> 524

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ggatcgctcg	tctctggtag	ctgcagccaa	atcataaacg	gcgaggactg	cagcccgcac	120
tcgcagccct	ggcaggcggc	actggtcatg	gaaaacgaat	tggtctgctc	gggcgtcctg	180

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gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 240
ctgggcctgc acagtcttga ggccgaccaa gagecagggg gccagatggg ggaggccagc 300
ctctccgtac ggcacccaga gtacaacaga cccttgctcg ctaacgacct catgctcatc 360
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 420
tgccctaccg cggggaactc ttgcctcggt tctggtggtg gtctgctggc gaacggcaga 480
atgcctaccg tgctgcagtg cgtgaacgtg tcggtggtgt ctgaggaggt ctgcagtaag 540
ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 600
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 660
gtgtctttcg gaaaagcccc gtgtggccaa gttggcgtgc caggtgtcta caccaacctc 720
tgcaaattca ctgagtggat agagaaaacc gtccaggcca gttaa 765

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<210> 525

<211> 254

<212> PRT

<213> Homo sapien

<400> 525

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Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
 1          5          10          15
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
          20          25          30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
          35          40          45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
 50          55          60
Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
 65          70          75          80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
          85          90          95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
          100          105          110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
          115          120          125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
          130          135          140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
          145          150          155          160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
          165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
          180          185          190
Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
          195          200          205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
          210          215          220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
          225          230          235          240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
          245          250

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<210> 526

<211> 963

<212> DNA

<213> Homo sapiens

<400> 526

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aactgcacog tggctcttcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
tttctctgca tgcttgacgc cattgacctg gccttatcca catccaccat gcctaagatc 240
cttgcccttt tctgggttga ttcccgagag attagctttg aggctgtct taccagatg 300
ttctttatcc atgccctctc agccattgaa tccaccatcc tgctggccat ggcctttgac 360
cgttatgtgg ccatctgcca cccactgccc catgctgcag tgctcaacaa tacagtaaca 420
gccagattg gcacgtggc tgtgggtccc ggatccctct tttttttccc actgcctctg 480
ctgatcaagc ggctggcctt ctgccactcc aatgtcctct cgcaactccta ttgtgtccac 540
caggatgtaa tgaagtggc ctatgcagac actttgccc atgtggtata tggctttact 600
gccattctgc tggctcatgg cgtaggacgta atgttcatct ccttgctcta ttttctgata 660
atacgaacgg ttctgcaact gccttccaag tcagagcggg ccaaggcctt tggaaacctgt 720
gtgtcacaca ttggtgtggt actgccttc tatgtgccac ttattggcct ctcaattgta 780
caccgctttg gaaacagcct tcatcccat gtgcgtgttg tcatgggtga catctacctg 840
ctgctgcctc ctgtcatcaa tcccatcatc tatggtgcc aaaccaaaca gatcagaaca 900
cgggtgctgg ctatgttcaa gatcagctgt gacaaggact tgcaggtgtg gggaggcaag 960
tga

```

<210> 527

<211> 320

<212> PRT

<213> Homo sapiens

<400> 527

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Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
      5                      10                      15

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
      20                      25                      30

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
      35                      40                      45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
      50                      55                      60

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
      65                      70                      75                      80

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
      85                      90                      95

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
      100                     105                     110

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
      115                     120                     125

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
      130                     135                     140

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu

```

145 150 155 160
 Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
 165 170 175
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
 180 185 190
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
 195 200 205
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
 210 215 220
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
 225 230 235 240
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
 245 250 255
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
 260 265 270
 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
 275 280 285
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
 290 295 300
 Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
 305 310 315 320

<210> 528
 <211> 20
 <212> DNA
 <213> Homo Sapien

<400> 528
 actatggtcc agaggctgtg 20

<210> 529
 <211> 20
 <212> DNA
 <213> Homo Sapien

<400> 529
 atcacctatg tgccgcctct 20

<210> 530
 <211> 1852
 <212> DNA
 <213> Homo sapiens

<400> 530

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<210> 531
<211> 879
<212> DNA
<213> Homo sapiens
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<400>	531						
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aacgtgggca	cttctggaga	ccacaaogac	tcctctgtga	agacgcttgg	gagcaagagg	120	
tgcaagtgg	gctgccactg	cttccctctg	tgcaggggga	gcggaagag	caacgtggtc	180	
gcttggggag	actacgatga	cagcgcttc	atggatcca	ggtaccacgt	ccatggagaa	240	
gatctggaca	agctccacag	agctgcttgg	tggggtaaag	tcccagaaa	ggatctcatc	300	
gtcatgctca	gggacacgga	tgtgaacaag	agggacaagc	aaaagaggac	tgctctacat	360	
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cttaatgtcc	ttgacaacaa	aaagaggaca	gctctgacaa	aggccgtaca	atgccaggaa	480	
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ggaaatacca	ctctacacta	tgctgtctac	aatgaagata	aattaatggc	caaagcactg	600	
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ggatatacatg	agcaaaaaa	gcaagtgggt	aaatttttaa	tcaagaaaaa	agcgaattta	720	
aatgcgctgg	atagatactg	aaagaactgt	ctcatacttg	ctgtatgttg	tggaatcgca	780	
aatgatgtca	gccctctatc	tgagcaaaat	gttgatgtat	cttctcaaga	tctggaaaaga	840	
cggccagaga	gtatgctggt	tctagtcatc	atcatgtaa			879	

<210> 532
 <211> 292
 <212> PRT
 <213> Homo sapiens

<400> 532

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Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
              5              10              15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
      20              25              30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
      35              40              45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
      50              55              60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
      65              70              75              80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
      85              90              95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
      100             105             110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
      115             120             125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
      130             135             140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
      145             150             155             160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
      165             170             175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
      180             185             190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
      195             200             205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
      210             215             220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
      225             230             235             240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
      245             250             255
  
```

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
 260 265 270

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu
 275 280 285

Val Ile Ile Met
 290

<210> 533
 <211> 801
 <212> DNA
 <213> Homo sapiens

<400> 533
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 tatgccactg cagcattctt ggttgccaag aggccaaacca caggccatct tgagaaggag 180
 tttatgttcc actgcagaaa gcagccagga tcaccatcca ggggacttgg tcttctgttg 240
 ccctggccag acatagaatt tgtgccaagg caggacaagc tcaactcagag cagcgtgtta 300
 gtacctcaaa tctgtgcgtg ccagacaagg ccaaactggc tcaatgagca accagccacc 360
 tctgcagggg tgcgtctgga ggaggtggac cagccaccaa ccttaccag tcaaggaagt 420
 ggatggccat gttccacag cctgagtggc tgccacctga tggctgatat agcaaaggcc 480
 ttaggaaaag cagatggccc ttggccctac ctttttgta gaagaactga tgttccatgt 540
 cctgcagcga gtgaggttg tggtgtgcc ccagctcct ggcacacct cgcagagggtg 600
 actggttgct ctttgagccc tcttagcctt gccagcatg cacaagcctc agtgctacta 660
 ctgtgctaca aatggagcca tataggggaa acgagcagcc atctcaggag caaggtgtat 720
 gctgcctttg ggggtccag tccttgccctc aagggtctta tgctactgtg ggcttcttgg 780
 ttgccaagag gcagaccata g 801

<210> 534
 <211> 266
 <212> PRT
 <213> Homo sapiens

<400> 534
 Met Tyr Lys Leu Gln Cys Asn Asn Cys Ala Thr Asn Gly Ala Thr Glu
 5 10 15

Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala
 20 25 30

Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val
 35 40 45

Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His
 50 55 60

Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
 65 70 75 80

Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
 85 90 95

Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn
100 105 110

Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu
115 120 125

Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
130 135 140

Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
145 150 155 160

Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
165 170 175

Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
180 185 190

Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
195 200 205

Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
210 215 220

Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
225 230 235 240

Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu
245 250 255

Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro
260 265

<210> 535

<211> 6082

<212> DNA

<213> Homo sapiens

<400> 535

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cggagccccg gccactgcc gcctgatcag cgcgaccccc gcccgcgccc gccccgccc 180
gcaagatgct gcccggtgtac caggaggtga agcccaaccc gctgcaggac gcgaacctct 240
gctcacgcgt gttcttcttg tggctcaatc ccttgtttaa aattggccat aaacggagat 300
tagaggaaga tgatatgtat tcagtgtgct cagaagaccg ctcacagcac cttggagagg 360
agttgcaagg gttctgggat aaagaagttt taagagctga gaatgacgca cagaagcctt 420
ctttaacaag agcaatcata aagtgttact ggaaatotta tttagttttg ggaattttta 480
cgtttaattga ggaaagtgcc aaagtaatcc agcccatatt tttgggaaaa attattaatt 540
attttgaaaa ttatgatccc atggattctg tggctttgaa cacagcgtac gcctatgcca 600
cggtgctgac tttttgcacg ctcatitttg ctatactgca tcacttatat ttttatcacg 660
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ttcgtcttag taacatggcc atggggaaga caaccacagg ccagatagtc aatctgctgt 780
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ccaatgatgt gaacaagttt gatcagggtga cagtgttctt acacttcctg tgggcaggac 840
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ctgggatggc agttctaate atttctcctgc ccttgcaaag ctgttttggg aagttgttct 960
catcactgag gagtaaaact gcaactttca cggatgccag gatcaggacc atgaatgaag 1020
ttataactgg tataaggata ataaaaatgt acgcctggga aaagtcattt tcaaacttta 1080
ttaccaatth gagaaagaag gagatttcca agattctgag aagttcctgc ctgaggggga 1140
tgaatttggc ttcgtttttc agtgcaagca aaatcatcgt gtttgtgacc ttcaccacct 1200
acgtgctcct cggcagtggt atcacagcca gccgcgtgtt cgtggcagtg acgctgtatg 1260
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accgtcagct gccgtcagat ggtaaaaaga tgggtcatgt gcaggatttt actgcttttt 1440
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aattgttagc tgtggtcggc cccgtgggag cagggaagtc atcactgta agtgccgtgc 1560
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acgaaaagga acgatatgaa aaagtcataa agccttgtgc tctgaaaaag gatttacagc 1740
tggtggagga tgggtatctg actgtgatag gagatcgggg aaccacgctg agtggagggc 1800
agaaagcacg ggtaaacctt gcaagagcag tgtatcaaga tctgacatc tatctcctgg 1860
acgatcctct cagtgcagta gatgcggaag ttagcagaca cttgttcgaa ctgtgtattt 1920
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aacaacctcc agttccagga actcccacac taaggaaatcg taccttctca gagtcttcgg 2160
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caaacaaaca aagtatgcta aatgtcactg taaatggagg aggaaatgta accgagaagc 2460
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Tyr	Phe	Leu	Glu	Thr 885	Ser	Arg	Asp	Val	Lys	Arg	Leu	Glu	Ser	Thr	Thr

Arg	Ser	Pro	Val	Phe	Ser	His	Leu	Ser	Ser	Ser	Leu	Gln	Gly	Leu	Trp	
900							905						910			
Thr	Ile	Arg	Ala	Tyr	Lys	Ala	Glu	Glu	Arg	Cys	Gln	Glu	Leu	Phe	Asp	
915							920						925			
Ala	His	Gln	Asp	Leu	His	Ser	Glu	Ala	Trp	Phe	Leu	Phe	Leu	Thr	Thr	
930							935						940			
Ser	Arg	Trp	Phe	Ala	Val	Arg	Leu	Asp	Ala	Ile	Cys	Ala	Met	Phe	Val	
945							950						955			
Ile	Ile	Val	Ala	Phe	Gly	Ser	Leu	Ile	Leu	Ala	Lys	Thr	Leu	Asp	Ala	
							965						970			
Gly	Gln	Val	Gly	Leu	Ala	Leu	Ser	Tyr	Ala	Leu	Thr	Leu	Met	Gly	Met	
							980						985			
Phe	Gln	Trp	Cys	Val	Arg	Gln	Ser	Ala	Glu	Val	Glu	Asn	Met	Met	Ile	
							995						1000			
Ser	Val	Glu	Arg	Val	Ile	Glu	Tyr	Thr	Asp	Leu	Glu	Lys	Glu	Ala	Pro	
							1010						1015			
Trp	Glu	Tyr	Gln	Lys	Arg	Pro	Pro	Pro	Ala	Trp	Pro	His	Glu	Gly	Val	
							1025						1030			
Ile	Ile	Phe	Asp	Asn	Val	Asn	Phe	Met	Tyr	Ser	Pro	Gly	Gly	Pro	Leu	
							1045						1050			
Val	Leu	Lys	His	Leu	Thr	Ala	Leu	Ile	Lys	Ser	Gln	Glu	Lys	Val	Gly	
							1060						1065			
Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser	Leu	Ile	Ser	Ala	Leu	
							1075						1080			
Phe	Arg	Leu	Ser	Glu	Pro	Glu	Gly	Lys	Ile	Trp	Ile	Asp	Lys	Ile	Leu	
							1090						1095			
Thr	Thr	Glu	Ile	Gly	Leu	His	Asp	Leu	Arg	Lys	Lys	Met	Ser	Ile	Ile	
							1105						1110			
Pro	Gln	Glu	Pro	Val	Leu	Phe	Thr	Gly	Thr	Met	Arg	Lys	Asn	Leu	Asp	
							1125						1130			
Pro	Phe	Asn	Glu	His	Thr	Asp	Glu	Glu	Leu	Trp	Asn	Ala	Leu	Gln	Glu	
							1140						1145			
Val	Gln	Leu	Lys	Glu	Thr	Ile	Glu	Asp	Leu	Pro	Gly	Lys	Met	Asp	Thr	
							1155						1160			
Glu	Leu	Ala	Glu	Ser	Gly	Ser	Asn	Phe	Ser	Val	Gly	Gln	Arg	Gln	Leu	
							1170						1175			

Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile
1185 1190 1195 1200

Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln
1205 1210 1215

Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys
1220 1225

<210> 538

<211> 1261

<212> PRT

<213> Homo sapiens

<400> 538

Met Tyr Ser Val Leu Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu
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Leu Gln Gly Phe Trp Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala
20 25 30

Gln Lys Pro Ser Leu Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser
35 40 45

Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val
50 55 60

Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr
65 70 75 80

Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
85 90 95

Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
100 105 110

Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
115 120 125

His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
130 135 140

Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn
145 150 155 160

Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro
165 170 175

Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile
180 185 190

Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln
195 200 205

1185 1190 1195 1200 1205 1210 1215 1220 1225

Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr
 210 215 220
 Phe Thr Asp Ala Arg Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile
 225 230 235 240
 Arg Ile Ile Lys Met Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile
 245 250 255
 Thr Asn Leu Arg Lys Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys
 260 265 270
 Leu Arg Gly Met Asn Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile
 275 280 285
 Val Phe Val Thr Phe Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr
 290 295 300
 Ala Ser Arg Val Phe Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu
 305 310 315 320
 Thr Val Thr Leu Phe Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala
 325 330 335
 Ile Val Ser Ile Arg Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile
 340 345 350
 Ser Gln Arg Asn Arg Gln Leu Pro Ser Asp Gly Lys Lys Met Val His
 355 360 365
 Val Gln Asp Phe Thr Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr
 370 375 380
 Leu Gln Gly Leu Ser Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val
 385 390 395 400
 Val Gly Pro Val Gly Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu
 405 410 415
 Gly Glu Leu Ala Pro Ser His Gly Leu Val Ser Val His Gly Arg Ile
 420 425 430
 Ala Tyr Val Ser Gln Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser
 435 440 445
 Asn Ile Leu Phe Gly Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val
 450 455 460
 Ile Lys Ala Cys Ala Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly
 465 470 475 480
 Asp Leu Thr Val Ile Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln
 485 490 495

Lys Ala Arg Val Asn Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile
 500 505 510
 Tyr Leu Leu Asp Asp Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg
 515 520 525
 His Leu Phe Glu Leu Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr
 530 535 540
 Ile Leu Val Thr His Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile
 545 550 555 560
 Leu Ile Leu Lys Asp Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu
 565 570 575
 Phe Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn
 580 585 590
 Glu Glu Ser Glu Gln Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn
 595 600 605
 Arg Thr Phe Ser Glu Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro
 610 615 620
 Ser Leu Lys Asp Gly Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro
 625 630 635 640
 Val Thr Leu Ser Glu Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln
 645 650 655
 Ala Tyr Lys Asn Tyr Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile
 660 665 670
 Phe Leu Ile Leu Leu Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln
 675 680 685
 Asp Trp Trp Leu Ser Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val
 690 695 700
 Thr Val Asn Gly Gly Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp
 705 710 715 720
 Tyr Leu Gly Ile Tyr Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly
 725 730 735
 Ile Ala Arg Ser Leu Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln
 740 745 750
 Thr Leu His Asn Lys Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu
 755 760 765
 Phe Phe Asp Arg Asn Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys
 770 775 780

Asp Ile Gly His Leu Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe
 785 790 795 800
 Ile Gln Thr Leu Leu Gln Val Val Gly Val Val Ser Val Ala Val Ala
 805 810 815
 Val Ile Pro Trp Ile Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe
 820 825 830
 Ile Phe Leu Arg Arg Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg
 835 840 845
 Leu Glu Ser Thr Thr Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser
 850 855 860
 Leu Gln Gly Leu Trp Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys
 865 870 875 880
 Gln Glu Leu Phe Asp Ala His Gln Asp Leu His Ser Glu Ala Trp Phe
 885 890 895
 Leu Phe Leu Thr Thr Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile
 900 905 910
 Cys Ala Met Phe Val Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala
 915 920 925
 Lys Thr Leu Asp Ala Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu
 930 935 940
 Thr Leu Met Gly Met Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val
 945 950 955 960
 Glu Asn Met Met Ile Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu
 965 970 975
 Glu Lys Glu Ala Pro Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp
 980 985 990
 Pro His Glu Gly Val Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser
 995 1000 1005
 Pro Gly Gly Pro Leu Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser
 1010 1015 1020
 Gln Glu Lys Val Gly Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser
 1025 1030 1035 1040
 Leu Ile Ser Ala Leu Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp
 1045 1050 1055
 Ile Asp Lys Ile Leu Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys
 1060 1065 1070

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Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met
1075                      1080                      1085

Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp
1090                      1095                      1100

Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro
1105                      1110                      1115                      1120

Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val
1125                      1130                      1135

Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn
1140                      1145                      1150

Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr
1155                      1160                      1165

Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr
1170                      1175                      1180

Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys
1185                      1190                      1195                      1200

Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr
1205                      1210                      1215

Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln
1220                      1225                      1230

Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg
1235                      1240                      1245

Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser
1250                      1255                      1260

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<210> 539

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 539

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Cys Leu Ser His Ser Val Ala Val Val Thr
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<210> 540

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 540

Ala Val Val Thr Ala Ser Ala Ala Leu

1 5

<210> 541

<211> 14

<212> PRT

<213> Homo sapiens

<400> 541

Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu

5 10

<210> 542

<211> 15

<212> PRT

<213> Homo sapiens

<400> 542

Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala

5 10 15

<210> 543

<211> 12

<212> PRT

<213> Homo sapiens

<400> 543

Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val

5 10

<210> 544

<211> 18

<212> PRT

<213> Homo sapiens

<400> 544

Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe

5 10 15

Met Thr

<210> 545

<211> 18

<212> PRT

<213> Homo sapiens

<400> 545

Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
 5 10 15

Ser Val

<210> 546

<211> 29

<212> PRT

<213> Homo sapiens

<400> 546

Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly
 5 10 15

Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met
 20 25

<210> 547

<211> 58

<212> PRT

<213> Homo sapiens

<400> 547

Val Ala Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu
 5 10 15

Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu
 20 25 30

Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys
 35 40 45

Cys Arg Met Pro Arg Thr Leu Arg Arg Leu
 50 55

<210> 548

<211> 18

<212> PRT

<213> Homo sapiens

<400> 548

Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu
 5 10 15

Glu Cys

<210> 549
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 549
 Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg
 5 10 15

Gln Ala

<210> 550
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 550
 Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe
 5 10

<210> 551
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 551
 Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala
 5 10

<210> 552
 <211> 2577
 <212> DNA
 <213> Homo sapiens

<400> 552
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 tcataccagt ccacggacta ttatgaacca caccacacag gaggaggtga gcactaggca 180
 agccaaggaa gcttcacctg tacttacagc cacacgccat ggctcatatt acagcctgaa 240
 ctctgcctcc actcagatca gtgataacat tagaaactca ttggagcaag aaccctgttg 300
 tgaactgcct atccgaagga tctaggttgt gtgcttcgta tgagaatcta atgccagatg 360
 atctatcatt gtctcacttt gccccagat aagaccatct agttgcagaa aaataagctc 420
 agagcttcca ctgattctac attatggata tgtgccgccg aagcaagcac aaagccctac 480
 ttttacacat gcctagtgat gttcatgga caaggcttgg ctctgttgag tccaactaac 540
 ctacctgaga ttctgagatt tctcttcaat ggcttcctgt gagctagagt ttgaaaatat 600
 cttaaaatct tgagctagag atggaagtag cttggacgat ttctattatc atgtaaatcg 660
 ggtcactcaa ggggcccaacc acagctggga gccactgctc aggggaaggt tcatatggga 720
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gcaaagaaga agaaacaaac actgatctct ttctgccacc cctctgaccc tttggaactc 840
 ctctgaccct ttagaacaag cctacctaata atctgctaga gaaaagacca acaacggcct 900
 caaaggatct cttaccatga aggtctcagc taattcttgg ctaagatgtg gggtccacat 960
 taggttctga atatgggggg aagggtcaat ttgctcattt tgtgtgtgga taaagtcagg 1020
 atgccaggg gccagagcag ggggctgctg ctttggaac aatggctgag catataacca 1080
 taggtatggg aacaaaaaac atcaaagtca ctgtatcaat tgccatgaag actcgaggga 1140
 cctgaatcta ccgattcatc ttaaggcagc aggaccagtt tgagtggcaa caatgcagca 1200
 gcagaatcaa tggaaacaac agaattgatt caatgtcctt tttttctcc tccttctgac 1260
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 ttcaagccc aaataactaa tcagaaaaat caaagatgtg atactatttt ttatcccatg 1440
 cataggtgct acacttggat caaatgaaca atgttggggt ctytatggat aaaggtctta 1500
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 ctgwtttctg gctgatgcag gggactaact cactgccacg cgaaaactac ctgaactgaa 1620
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 agcattaact agccttttaa tgtaaacact tacacattat gaygactaga aacagcatac 1740
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 aggctgacta tacttgccga tccacaacat acagcaagta tgagagcagt tctaaaatga 1860
 cagagatagg aacagtaata aagttattkt aaaagctaata ttgatatact ttaccaattt 1920
 aacatcttgc ctgtccgtgc agaatacaac atttacatgc actaaaagac ataagcatct 1980
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 aaaaaaacc tcttatctca gtgggtatt gcatagcaga agctactaat ttgaagtcct 2100
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 tagtcacagg agtttcagtt aatgatgcca ataagcatgt gctaggcact gaattaaatg 2340
 ccacatatat ctttcttatg cgcagcaaac ttgaaggat atattctcct acttttcata 2400
 tatgacaaca tatttggtgg taaataacgt tccaaggtc acacacctag caagtaagaa 2460
 agttaggaat taaaccagtt attgtgtgaa tctaaagcct aacttttttc tctttatcac 2520
 ccacctacgg cttgtcttca ttaaaggaaa agtgtatcca cttaaaaaaa aaaaaaa 2577

<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys
 5 10 15

Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
 20 25 30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
 35 40 45

Glu Pro His His Thr Gly Gly Gly Glu His
 50 55

<210> 554

<211> 59

<212> PRT

<213> Homo sapiens

<400> 554

Leu Gln Lys Asn Lys Leu Arg Ala Ser Thr Asp Ser Thr Leu Trp Ile
 5 10 15

Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val
 20 25 30

Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro
 35 40 45

Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu
 50 55

<210> 555

<211> 71

<212> PRT

<213> Homo sapiens

<400> 555

Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln
 5 10 15

Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser
 20 25 30

Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp
 35 40 45

Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro
 50 55 60

Ser Asp Pro Leu Glu Leu Leu
 65 70

<210> 556

<211> 81

<212> PRT

<213> Homo sapiens

<400> 556

Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr
 5 10 15

Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
 20 25 30

Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly
 35 40 45

Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
 50 55 60

Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg
65 70 75 80

Ile

<210> 557

<211> 54

<212> PRT

<213> Homo sapiens

<400> 557

Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu
5 10 15

Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu
20 25 30

Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys
35 40 45

Gly Phe His Ile Arg Phe
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<210> 558

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(77)

<223> Xaa = Any amino acid

<400> 558

Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu
5 10 15

Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
20 25 30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
35 40 45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
50 55 60

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
65 70 75

<210> 559
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 559
 Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser
 5 10 15
 Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala
 20 25 30
 Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala
 35 40 45
 Pro Arg
 50

<210> 560
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 560
 Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly
 5 10 15
 Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr
 20 25 30
 Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn
 35 40 45
 Thr Asp Leu Phe Leu Pro Pro Leu
 50 55

<210> 561
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(57)
 <223> Xaa = Any amino acid

<400> 561
 Val Leu His Leu Asp Gln Met Asn Asn Val Gly Ile Xaa Met Asp Lys
 5 10 15
 Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser
 20 25 30

160300 = 699360

Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn
 35 40 45

Ser Leu Pro Arg Glu Asn Tyr Leu Asn
 50 55

<210> 562
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(59)
 <223> Xaa = Any amino acid

<400> 562
 Asp Leu Tyr Pro Xaa Arg Ser Gln His Cys Ser Phe Asp Pro Ser Val
 5 10 15

Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu
 20 25 30

Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val
 35 40 45

Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro
 50 55

<210> 563
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 563
 Cys Phe Leu Phe Pro Tyr Leu Trp Leu Tyr Ala Gln Pro Leu Phe Pro
 5 10 15

Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His
 20 25 30

Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met
 35 40 45

Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg
 50 55 60

Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg
 65 70 75

<400> 564

Glu Arg Asp Gln Cys Leu Phe Leu Leu Leu Cys Tyr Gln Ile Tyr Thr
20 25 30

Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser
35 40 45

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
50 55 60

<210> 565

<211> 57

<212> PRT

<213> Homo sapiens

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<221> VARIANT

<222> (1) ... (57)

<223> Xaa = Any amino acid

<400> 565

Leu Tyr Tyr Cys Ser Tyr Leu Cys His Phe Arg Thr Ala Leu Ile Leu
5 10 15

Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
20 25 30

Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
35 40 45

Tyr Ala Val Ser Ser Xaa His Asn Val
50 55

<210> 566

<211> 55

<212> PRT

<213> Homo sapiens

<400> 566

Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg
5 10 15

Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His
20 25 30

Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro
 35 40 45

Leu Lys Leu Val Leu Leu Pro
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<210> 567
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 567
 Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu
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Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
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Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile
 35 40 45

Phe Arg Thr
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<210> 568
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 568
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Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu
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Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
 35 40 45

Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
 50 55 60

Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
 65 70 75

<210> 569
 <211> 4809
 <212> DNA
 <213> Homo sapiens

<400> 569

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<213> Homo sapiens
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<210> 571

<400> 571

<210> 572

<211> 203

<212> DNA

<213> Homo sapiens

<400> 572

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<210> 573

<211> 132

<212> PRT

<213> Homo sapiens

<400> 573

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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
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35 40 45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
50 55 60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
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Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
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Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
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Leu Leu Asn Tyr
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<210> 574

<211> 62

<212> PRT

<213> Homo sapiens

<400> 574

Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
 5 10 15

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 20 25 30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
 35 40 45

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
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<210> 575

<211> 76

<212> PRT

<213> Homo sapiens

<400> 575

Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
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Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
 20 25 30

Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
 35 40 45

Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
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Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
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<210> 576

<211> 68

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<212> PRT
 <213> Homo sapiens

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 Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln
 35 40 45
 Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn
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 Pro Gly Tyr Ser
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<210> 577
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 577
 Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg
 5 10 15
 Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro
 20 25 30
 Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe
 35 40 45
 Arg Leu Ala Pro Pro Ala Asp Thr Pro
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<210> 578
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 578
 Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His
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 His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr

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Gln Pro His
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<210> 579
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<212> PRT
<213> Homo sapiens
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<400> 579
Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
          5              10              15
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Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
20 25 30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
35 40 45

Ile Ala Lys Val Tyr Gln Pro His
50 55

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<210> 580
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<212> PRT
<213> Homo sapiens
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<400> 580
Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
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Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
20 25 30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
35 40 45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
50 55 60

Phe Ile His
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<210> 581
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<213> Homo sapiens
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<400> 581

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Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu
              5              10              15

Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser
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Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala
              35              40              45

Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu
              50              55              60

Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser
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<210> 582

<211> 51

<212> PRT

<213> Homo sapiens

<400> 582

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Met Leu Phe Leu Gln Thr Ile Asp Thr Lys Cys Thr Gly Ile Glu Ile
              5              10              15

Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val
              20              25              30

Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe
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Leu Gly Val
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<210> 583

<211> 60

<212> PRT

<213> Homo sapiens

<400> 583

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Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
              5              10              15

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
              20              25              30

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
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Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
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F06020-09903600

<210> 584
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 584
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 5 10 15
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 585
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 585
 Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
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 Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
 20 25 30
 Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
 35 40 45
 Leu Phe
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<210> 586
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 586
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30

1.05020 = 693666

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
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<210> 587
 <211> 1408
 <212> DNA
 <213> Homo sapiens

<400> 587
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<210> 588
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 588
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 20 25 30

Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln
 35 40 45

Ile

<213> Homo sapiens

<400> 589
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5 10 15

Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
20 25 30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
35 40 45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
50 55 60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
65 70 75 80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
85 90 95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
100 105 110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
115 120 125

Val	Asp	Val	Lys	Ile	Thr	Gln	Leu	Gln	Leu	Leu	Ser	Leu	Lys	Met	Gly
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Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
145 150 155

<213> Homo sapiens

Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr

Variable	Mean	SD	Min	Max
Age	38.5	12.5	18	65
Gender	0.5	0.5	0	1
Marital Status	0.5	0.5	0	1
Education	12.5	2.5	9	16
Income	3500	1500	1000	8000
Health Status	0.5	0.5	0	1
Exercise Frequency	2.5	1.5	0	5
Stress Level	4.5	1.5	1	7
Sleep Quality	3.5	1.5	1	6
Dietary Habits	0.5	0.5	0	1
Alcohol Consumption	0.5	0.5	0	1
Smoking Status	0.5	0.5	0	1
Family Size	2.5	1.5	1	5
Work Hours	40	10	20	60
Commuting Time	30	15	10	60
Childcare Expenses	500	200	0	1000
Health Insurance	0.5	0.5	0	1
Property Ownership	0.5	0.5	0	1
Vehicle Ownership	0.5	0.5	0	1
Religious Beliefs	0.5	0.5	0	1
Political Views	0.5	0.5	0	1
Travel Frequency	1.5	1.5	0	5
Language Proficiency	0.5	0.5	0	1
Employment Status	0.5	0.5	0	1
Unemployment Duration	0	0	0	0
Job Satisfaction	4.5	1.5	1	7
Work-Life Balance	3.5	1.5	1	6
Professional Development	0.5	0.5	0	1
Networking Opportunities	0.5	0.5	0	1
Industry Trends	0.5	0.5	0	1
Company Culture	0.5	0.5	0	1
Management Style	0.5	0.5	0	1
Team Dynamics	0.5	0.5	0	1
Communication Skills	0.5	0.5	0	1
Problem Solving Skills	0.5	0.5	0	1
Leadership Skills	0.5	0.5	0	1
Time Management Skills	0.5	0.5	0	1
Organizational Skills	0.5	0.5	0	1
Interpersonal Skills	0.5	0.5	0	1
Emotional Stability	0.5	0.5	0	1
Resilience	0.5	0.5	0	1
Adaptability	0.5	0.5	0	1
Creativity	0.5	0.5	0	1
Innovation	0.5	0.5	0	1
Collaboration	0.5	0.5	0	1
Conflict Resolution	0.5	0.5	0	1
Decision Making	0.5	0.5	0	1
Strategic Thinking	0.5	0.5	0	1
Resource Management	0.5	0.5	0	1
Project Management	0.5	0.5	0	1
Quality Control	0.5	0.5	0	1
Customer Service	0.5	0.5	0	1
Marketing Strategy	0.5	0.5	0	1
Sales Performance	0.5	0.5	0	1
Product Development	0.5	0.5	0	1
Research & Development	0.5	0.5	0	1
Manufacturing Process	0.5	0.5	0	1
Supply Chain Management	0.5	0.5	0	1
Logistics	0.5	0.5	0	1
Inventory Management	0.5	0.5	0	1
Warehouse Management	0.5	0.5	0	1
Transportation Management	0.5	0.5	0	1
Customer Relationship Management	0.5	0.5	0	1
Human Resource Management	0.5	0.5	0	1
Finance Management	0.5	0.5	0	1
Accounting	0.5	0.5	0	1
Tax Management	0.5	0.5	0	1
Legal Compliance	0.5	0.5	0	1
Regulatory Affairs	0.5	0.5	0	1
Public Relations	0.5	0.5	0	1
Media Relations	0.5	0.5	0	1
Community Relations	0.5	0.5	0	1
Environmental Management	0.5	0.5	0	1
Sustainability	0.5	0.5	0	1
Corporate Social Responsibility	0.5	0.5	0	1
Employee Engagement	0.5	0.5	0	1
Training & Development	0.5	0.5	0	1
Performance Management	0.5	0.5	0	1
Compensation & Benefits	0.5	0.5	0	1
Health & Safety	0.5	0.5	0	1
Facilities Management	0.5	0.5	0	1
Information Technology	0.5	0.5	0	1
IT Security	0.5	0.5	0	1
Software Development	0.5	0.5	0	1
Hardware Management	0.5	0.5	0	

290

295

300

Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
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Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
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<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

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catttcatat	gggcaacctg	ccagacagga	gaaagtactt	cccatgttaa	aagacattta	360
ttatcttgtt	ttcctgtcat	gggagttcca	gaaaaagtta	aaacagacaa	tgggccaggt	420
tactgtagta	aagcatttca	aaaattctta	aatcagtggg	aaattacaca	tacaatagga	480
attctctata	attcccaagg	acaggccata	attgaaggaa	ctaatagaac	actcaaagct	540
caattgggta	aacaaaaaaa	aaaaa				565

<210> 592

<211> 188

<212> PRT

<213> Homo sapien

<400> 592

Thr	Lys	Ala	Asn	Glu	Gln	Ala	Asp	Leu	Leu	Val	Ser	Ser	Ala	Phe	Ile
1				5				10					15		
Glu	Ala	Gln	Glu	Leu	His	Ala	Leu	Thr	His	Val	Asn	Ala	Ile	Gly	Leu
		20						25					30		
Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln
		35					40					45			
His	Cys	Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg
	50					55					60				
Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val
65					70					75				80	
Met	His	Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val
			85					90						95	
Asp	Thr	Tyr	Ser	His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser
		100						105					110		
Thr	Ser	His	Val	Lys	Arg	His	Leu	Leu	Ser	Cys	Phe	Pro	Val	Met	Gly
		115					120					125			
Val	Pro	Glu	Lys	Val	Lys	Thr	Asp	Asn	Gly	Pro	Gly	Tyr	Cys	Ser	Lys
	130						135				140				

Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly
 145 150 155 160
 Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg
 165 170 175
 Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys
 180 185

<210> 593
 <211> 271
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(271)
 <223> n = A,T,C or G

<400> 593
 acttttatgtt cnagtgcana aancncctg gattgccacc ntactctcag ggctgtgant 60
 tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggg 120
 gtccttagct ggggtctata catgncnggg naagggcngc tgagtnccat nagcaaagga 180
 nctagnatnt gcgggggtgc ggcctgggcc taccctttna agcatccntn gatccactcc 240
 angaancng gggtagncag gtttnccaac a 271

<210> 594
 <211> 376
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(376)
 <223> n = A,T,C or G

<400> 594
 cctttggggg nggggggaac ctttaccatt gtncaccttt atttcatttg gttnggggtc 60
 gcgcctcnn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc 120
 cgattaagcg ncaaattgtgt agcaaaangc cgtgccactt gtggcgtagc tncgtcgggt 180
 cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccn gtggcatgag 240
 cccacgangg ntctgtgtcg tcacatggnc tctagacata acgcncccn ttttttncag 300
 agggggntgc cgcccttagg gaggnagggg tggggacact agccaancca nantctnacc 360
 ccattgaaga aaaggn 376

<210> 595
 <211> 242
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(242)
 <223> n = A,T,C or G

<400> 595

```

agnctgctgn tegtncctn tatgtggctt catnntgagg acaanagtng cactgagget      60
tgngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaanggggt    120
atgccangag cangtgcacc agtcccaact angagnccn ggcatgntac atcttcttcc     180
acccctnaaa ntttgngcta caangnccat ttttcttttt ctcttaaggg ncnctggct     240
tc                                                                    242

```

```

<210> 596
<211> 535
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(535)
<223> n = A,T,C or G

```

```

<400> 596
accagttaga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatttt      60
gaaagctttt taaatttttt cttaagaag attttagatg cttatcactg agtaccagag     120
ggatgtaggc tgatgccctt atcaacaag tcagggactg tggcacacaa ggattgacta     180
ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctgggtg   240
gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac     300
tcctgggtgct gaccaggggt cctggaggaa gggatgaggt gggcagtaga gatgctcagg     360
gcagtggccc ctttccatcc aactggaac tatttcagta ttttaccacc aattcagcca     420
ttcccttggtg cgctggctga acatcagccc tgctccaggt ctcagtttcc cctttgtaaa     480
gggaaagctc tggattcagg gagtgatgaa gaggtcatca tgggtcttgag aattc       535

```

```

<210> 597
<211> 257
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

```

```

<400> 597
tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat      60
tntntaacnt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn     120
attnctctta agatnngatn agaccccgtt tttcacggaa catatccaag naccatag      180
gnaacaagcc acggngggag tcacaaacat atattcttta ctctcataat ccgtnnacaca   240
naactnttgn acttgac                                                                    257

```

```

<210> 598
<211> 222
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(222)
<223> n = A,T,C or G

```



```

<400> 598
nntggntacc gtcnaaaactt nncttgggtac ccgagctcgg atccactagt ccagtgtggt      60
ggaattccat tgtgttgggc tataagctgt aatagtggag nctgtctngg ttcattgcan      120
nagnccctcc gcanncacnc ttgnnacaac ctgtgagnag gcnataaatt attcacataa      180
tcatcactgc atgaanctga ctcaaacgca tccacntaca cc                          222

```

```

<210> 599
<211> 238
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(238)
<223> n = A,T,C or G

```

```

<400> 599
gcattgacatc ancgatgtnt ttggnnacct ganattngct aaaactngng natgccgggn      60
atgnagggttt ggtantgatc tatgcactca catctcatgg ggacgtttca tgtggagtgn      120
tcgacaangt tgctgnancn gagaagtgat gatctcagtt gaaaggggtca tgtgaataca      180
cnttacactt gaaaaagaag cacattggga atatcacgaa acgnccacca acatcctg      238

```

```

<210> 600
<211> 232
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 600
cgaactatatt agactaccta ggaaaattat tttagtatca gaagaatatc aggggtgtag      60
tactcatcag agctaaatga gagegcttta aaaatgttag tttgtcttcc gccatttcta      120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaagc      180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg              232

```

```

<210> 601
<211> 547
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(547)
<223> n = A,T,C or G

```

```

<400> 601
cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgcca ttgctttttt      60
tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg      120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc      180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga      240
catgtaatcc gcggagttag taactcaaaa cgagtgcac tnggaagtat cgcagccggt      300

```

```

nctggatnaa attcccagct tgcctngcttg ctnagccggg gggcggtnaa aaaaacatct 360
gcagcccngg ggnaaaaaacc ttgcatttgt tcttacgtgt ttacgttatt ttatttccct 420
nnagcaaggc nggganttg ggactcgaaa tggtagagtt gggctgggga tgcgccctgt 480
tacataaaag nctccagaa gagggacggg tacaggcngg gantcctaaa ggtcagtcct 540
tgccatt 547

```

```

<210> 602
<211> 826
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(826)
<223> n = A,T,C or G

```

```

<400> 602
cgggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
taccattcga gtcctactc ctgccttgct ctagggaaat aaaataacgt aaacacgtaa 120
gaacaatgcg aaagcgtttt ctccctagg ctgcagattg tcttcttcac cgcccctgct 180
tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240
ctcgttttga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300
tagggaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna 360
atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
caggttttca ncctaataag tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480
gcttttacaa atcatttttc tcttctaggt atagcctgtc aggtggccta atgtattttt 540
gacatctcta ggaattttta tagaccagaa atgggtgcc gagatatgcc tgcactaatc 600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660
aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggctctga ataccaagc 780
nccctgaacn anagaacaan gccggagcac ccctcccaa atcccc 826

```

```

<210> 603
<211> 817
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

```

```

<400> 603
nnangacttt tgtggtnnta tacaattntt ttttctattt ctatgaagag aaagccacag 60
agtctaaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180
agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
aattacatta ggcacactga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgtcttc 420
atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480
gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540
tgcattctag aggtatcgca agccgtttct ggattaaatt cccagctagc ttgcttgctt 600
agcaggggag ggnaaaaaag acatctgcag cctaggggaag aaaacctttc gcattgttct 660

```

```
<210> 604
<211> 694
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(694)
<223> n = A,T,C or G
```

[illegible]

```
<210> 605
<211> 678
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G
```

<400>		605							
taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	ggggtgtagt			60	
actcatcana	gctaaatgag	agcgctttaa	aatgttagt	ttgtcttcgc	ccattttctac			120	
agaaagtgc	aatttcagg	ttccaacct	ataggtgata	tttaagaaa	aaaaaaaaagca			180	
atcgcaaata	gccccactgc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca			240	
ggtggccta	tgtaattttt	gacatctcta	ggaatttta	tagaacaga	aatgggtgcc			300	
agagatatgc	ctgcactaat	cttaagtggg	gatztatgta	tttctcaagc	aagtgattaa			360	
agcaaaaact	ggcacgattg	aatcaanat	cttttaggca	agaaagtc	gatgagtttt			420	
anaattattt	taggactctg	tggctttctc	ttcatagaaa	tagaaaaaaa	aaattgtata			480	
aaaaccaca	aaggtcctga	atagcccaa	gcaacactga	acaaaangaa	caaagcagga			540	
agcaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaa	acagcattct			600	
attgggcata	aaatagacca	aagaccagt	ggaacagaa	taaagancc	caaaataaat			660	
cctatatтта	cngcccnc							720	

$\langle 210 \rangle$	606
$\langle 211 \rangle$	263

```
<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G
```

```
<210> 607
<211> 22
<212> DNA
<213> Artificial Sequence
```

```
<400> 607
ccatgtgggt cccggttgtc tt
```

<220>
<223> Primer

```
<210> 609
<211> 40
<212> DNA
<213> Artificial Sequence
```

<400> 609
gctggacagg gggcaaaagc tggggcagtg aaccatgtgc 40

 $\langle 220 \rangle$

27

46

40

38

53

```
<210> 615
<211> 46
<212> DNA
<213> Artificial Sequence
```

<220>

<223> Primer

<400> 615

gcactcccag cctcccacaa tactggcctg gacggttttc tctatc

46

<210> 616

<211> 1350

<212> DNA

<213> Homo sapien

<400> 616

atgcatcacc	atcaccatca	catcataaac	ggcgaggact	gcagcccgc	ctcgagccc	60
tggcaggcgg	cactggtcat	ggaaaacgaa	ttgttctgct	cgggcgtcct	ggtgcatccg	120
cagtgggtgc	tgtcagccgc	acactgtttc	cagaactcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
gggcacccag	agtacaacag	acccttgctc	gctaacgacc	tcattgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcgggggaact	cttgccctcgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggagggc	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccagggtgtc	acaccaacct	ctgcaaattc	660
actgagtgga	tagagaaaac	cgtccaggcc	agtattgtgg	gaggctggga	gtgcgagaag	720
cattcccaac	cctggcaggt	gcttgtggcc	tctcgtggca	gggcagctctg	cggcgggtgt	780
ctggtgcacc	cccagtggtg	cctcacagct	gcccactgca	tcaggaacaa	aagcgtgac	840
ttgctgggtc	ggcacagcct	gtttcatcct	gaagacacag	gccagggtatt	tcaggtcagc	900
cacagcttcc	cacacccgct	ctacgatatg	agcctcctga	agaatcgatt	cctcaggcca	960
ggtgatgact	ccagccacga	cctcatgctg	ctccgcctgt	cagagcctgc	cgagctcacg	1020
gatgctgtga	aggtcatgga	cctgcccacc	caggagccag	cactggggac	cacctgctac	1080
gcctcaggct	ggggcagcat	tgaaccagag	gagttcttga	ccccaaagaa	acttcagtgt	1140
gtggacctcc	atgttatttc	caatgacgtg	tgtgcgcaag	ttcaccctca	gaaggtgacc	1200
aagttcatgc	tgtgtgctgg	acgctggaca	gggggcaaaa	gctggggcag	tgaaccatgt	1260
gcctgcccgc	aaaggccctc	cctgtacacc	aaggtggtgc	attaccggaa	gtggatcaag	1320
gacaccatcg	tggccaaccc	cgaattctaa				1350

<210> 617

<211> 449

<212> PRT

<213> Homo sapien

<400> 617

Met	His	His	His	His	His	Ile	Ile	Asn	Gly	Glu	Asp	Cys	Ser	Pro
1				5				10					15	
His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met	Glu	Asn	Glu	Phe
			20					25				30		
Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Ser	Ala	His
		35					40				45			
Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly	Leu	His	Ser	Glu
	50					55				60				
Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu	Ala	Ser	Leu	Val
	65				70					75				80
Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met
				85				90					95	

Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile
 100 105 110
 Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser
 115 120 125
 Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys
 130 135 140
 Val Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp
 145 150 155 160
 Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln
 165 170 175
 Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly
 180 185 190
 Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val
 195 200 205
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile
 210 215 220
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys
 225 230 235 240
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val
 245 250 255
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His
 260 265 270
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe
 275 280 285
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro
 290 295 300
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro
 305 310 315 320
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro
 325 330 335
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu
 340 345 350
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu
 355 360 365
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His
 370 375 380
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr
 385 390 395 400
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly
 405 410 415
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val
 420 425 430
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu
 435 440 445
 Phe

<210> 618

<211> 385

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(385)

<223> n = A,T,C or G

<400> 618

ctgtgctgag	aaccaaaagc	tatgancact	gcttttccaa	atgtccataa	naccaacatt	60
tttatcacta	ccaccatcac	ctgggagctc	nttagaaagc	tagtctcccg	ggcaccaccc	120
tggcctactg	aacctaattgt	gcattttaaca	agattnacgt	ngaaatctgc	aaagcacagg	180
ggcngataac	agtaccacct	gntctgggtc	ctanccccan	gacccttaca	gtctaactgg	240
gacacaaggg	cttnaaatca	aattgcctat	cattaagata	tacaanganc	ntgagaaact	300
gctncactta	tntattaagg	ngctctaaga	cttagaaacn	aaangcantg	ctgagangat	360
tcaaatatga	ngggggncac	tttnc				385

<210> 619

<211> 869

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(869)

<223> n = A,T,C or G

<400> 619

gatatcccg	gaattcgcg	ccgcgtcgac	ctctacttgt	ttagacataa	atgcagtcta	60
gcattaaaga	tccttttaaaa	aaatgttttc	ccaatggtta	aaagacaagc	tcaaataaat	120
gaactctcat	acatatgcc	aaattgatga	gtagataaat	atttcagtag	gtagtacta	180
gctttctgtg	tatgagtaaa	catatgggag	aaatttaaaa	cactaaagta	gactcaatga	240
aagcatagta	tcctatgtat	tcgtttttca	gaaatgtcta	atgaaggaag	gaaacaatga	300
atgaatgccc	ttattcctct	tagagtgtctg	ggacatggtt	ttgcctgaaa	acttcatgtg	360
aattttatat	tttgctacac	attacaccca	tcttagactt	atacgtataa	gacataaggc	420
atatottatg	tcttacatgt	ataataatct	aagcagaaca	aaaaataacg	aaatattttc	480
ttccccaat	ttttgagaca	gatggatttt	ccggaaagat	gtgttttagct	tttaatcctg	540
tggttttgtg	taccacctgg	cacactagag	tggtgctcta	attcagtgag	ttgtaactct	600
gggtgaacag	tggaaatact	aggggtacatt	ttaaaaatgc	taatgctcgg	gctcgcgtga	660
agaccaaat	aattggaatc	tctgnnggng	gnattgatct	ttttataatc	tttctanang	720
attctaattg	gcttccagg	atgaaaacn	ctgntggagc	tnggaacctt	ccttttagttt	780
ggagaaaccc	cgatgagggt	ntnttaggcn	ccgcctnttt	ttggcctggg	cttccccctt	840
tatntntttt	tgggaangnc	cnaattttt				869

<210> 620

<211> 339

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(339)

<223> n = A,T,C or G

<400> 620

gngcgggcct	cncogtgett	gctctcgtg	ccgacgctct	ttttccacca	gctgtaggan	60
aagcccgaag	accactggtc	ccccgggtag	cccaagtacc	actggtcctc	ctggctcctg	120
acgctncggg	tcttctcgt	ggcgtagact	gccagcttcg	gagacccctc	agccccctcc	180
cgcttitctc	caccccagga	ggccatcagt	agcgagctac	tgctcgggcc	acaacctccc	240


```

agcangatag cccgcggttt ccaatctgcg aaaggaggac cgccnagccc gaaatgccna 300
gccagcnat cactgccacg ccgagccnag cgctcgtgc 339

```

```

<210> 621
<211> 267
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

```

```

<400> 621
gggngcatg gtccnggta gccaaagtaca tggctcctcct ggctcctgac gctacgggtc 60
ttcctcgttg cgtagactgc cagcttcgga gacccctcag cccctccccg cttttctcca 120
ccccaggagg ccatcagtag cgagctactg cctcggccac aacctcccag caggatngcc 180
cgcggtttcc aatctgcgaa aggaggaccg ccnagccaga aatgccnagc cnagcgatca 240
ctgccacgcc naggcnagcg ctcggtgc 267

```

```

<210> 622
<211> 847
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G

```

```

<400> 622
cttangntgt cgactgacgt catgcatgan ttaaagcaga ggtttggtga aatttatgaa 60
aaatacaaaa ttccggcttg tcctgaggaa gagccactac ttgataactc tacaagagga 120
acagatgtga aggatattcc ctttaatttg acaaataaca tacctggttg tgaggaagaa 180
gatgcatctg aaatatctgt ctcaagtggta ttcgagacat ttctgaaca aaaagaaccc 240
agtctcaaaa atatcatcca tccatactat catccgtact ctgggtccca ggaacatggt 300
tgccagtcac cttctaagct tcattttacat gaaaataaat tagactgcga caatgataac 360
aaactaggca ttggacatat ttttagtaca gataacaact ttcataatga tgcaagcact 420
aagaaagcaa ggaaccacaga agtggttacg gttgaaatga aagaagacca agagtttgat 480
ttgcaaatga caaaaaatat gaaccaaagt agtgacagtg gcagtacaaa taactataaa 540
agcctgaaac cttaaattaga aaatctgagt tctttaccac cagattctga cagaacatca 600
ggaagtatat ctacatgaag aattacagca agacatgcca aaagtttaag aatgangtca 660
acacattaga aanaagantt ctgggctttg aagaaagaaa atgttccact tcataaagaa 720
ggttgaaaga agaatgggag agcccngaant tttttgcccn gaaattttcg ggaaccctac 780
tggtgggtgc nactgggttg ccatgaatga ataattggact aatcnnccaa ttctnnggga 840
agggaat 847

```

```

<210> 623
<211> 681
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

```

<222> (1)...(681)
 <223> n = A,T,C or G

<400> 623
 aaaactgtac tcgcgcgctg catgtcgaca ctagtggatc caaagaatcg gcacgagcga 60
 aaangctcan gcagcccggc tggccgcccg cgctcctccc cccaggaaaag ccaangtgga 120
 ngctgatgtg gctgcangag ctcgtttcac agccccctcan gtgganctgg ttgggcccgcg 180
 gctgccangg gcggaagtgg gtgtccccc angtcagccc caaggctgcc cctcaciaaag 240
 cactgggtgt ttgcctccac tgccaccttg ggctccgaac ccgctcccct gctgtggang 300
 cccaccgtgg gaatccaggt ccccaggtgg actgectgcc ttgcctcac tgcccactct 360
 gccacactt ccctgectag anaccgggaa ggggtgtgt cggtantgtt gccacctgg 420
 atgtggcagc accgactgtg ggggtggacc tggccttgcc ggggtgcaaaa gtggggggccc 480
 ngggaaaagc acctgaagtg gccctgaaaa atccccctt aattttnccc caatttgggg 540
 ctcaacaaa aggaattgc tgaagccaan ggtaccaagg tcacccctaa ggccagggtg 600
 aaaaggtccc aaaattccaa tccccacnt ttgggcttnc ctcttggaac cccggccccc 660
 tctontgaan ttttaaaaaa n 681

<210> 624
 <211> 661
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(661)
 <223> n = A,T,C or G

<400> 624
 attggtctta ctgtaccacc ggggtgaaat cgatggccgc ggctgtctaaa tatccgattt 60
 tttttttttt tctctttctg actgtccatg gacaaatgaa actaacttaa totaactaaa 120
 aaacacaact atattttgaa gattttctat ctgcactcaa ggacactttc caacnpggtt 180
 ttgttacctt ttggtcttgt ctctgaacat gaaattnatc tcaagggtt ngattttctgg 240
 acctcctatt cctgctatgg gtttgatatt tcttgggctc cagggccact gttgcattgg 300
 gntgaacagnt acctcctagc ccatancttc ctatcttggg aaacaaacct aacaactacg 360
 tgtaccttcc atagatctct gattgagttc cagtatnccg ttgctcatgg gcgattcact 420
 tgaatccgtn attggtgcca acaatcctga ctcatggggn aatggatcct atcacgttcc 480
 cctgattngc aacccctgta tacatanatc taatcgcata gaacttagcn tnggntatgc 540
 gcggctacgc tatcagggtt tgntaactat ngcatggcta cgaancctga tcatgatcna 600
 gggctcatgga ctcttatcag ggggggttggg ccgngcttct ttttcnnacc ttggtaaaac 660
 c 661

<210> 625
 <211> 181
 <212> DNA
 <213> Homo sapien

<400> 625
 gcaacaatca gatcatgtta aagtaaatct ccattgccct ggatcacttc aggatttaat 60
 tgtccaagga gagcagggtt ctctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa 120
 aatacaaaat tcaaccggtc gaaaatacac cactccattc agtgctctac ccccataagc 180
 c 181

<210> 626
 <211> 181

<212> DNA
<213> Homo sapien

<400> 626
gcaacaatca gatcatgtta aagtaaactct ccattgccct ggatcacttc aggattttaat 60
tgtccaagga gagcaggggt ctctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa 120
aatacaaaat tcaaccggtc gaaaatacac cactccattc agtgctctac ccccataaagc 180
c 181

<210> 627
<211> 813
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 627
accaagctgg agctcgcgcg cctgcaggtc gacactagtg gatccaaagt gaacgtgaag 60
gtgagcagag gagaacttgc gatggcaaag ttaaaaacaa gaggagatga tggctttggt 120
gtggcacagg atgttaaaaa aattctcctg tccttaagga gttactgcta tttgagtaat 180
gtgccacttc cctacatagc cttctatgca gaaatgctat atttccactt cacaaccag 240
aacgtgcatt ttatttttaca tttagaggag gaacaaacaa ccagaaggca aaaactggtg 300
cattattttt tgcaattctc ttggaaagag ttcgttttta acttctgctc agacagcaca 360
caactactgg gaatatattt taatttcaaa tctgatgtgt gacatctggt aactcattta 420
ttgctaataga agttttcaca ggaagcagca gtcaccagta gctcatctta tttttcagtt 480
ggcaaagtgt tgtttacctt ttattggcct gcatcggtgt ctcttatcac aggatattta 540
attagaaaac gcaagtagcc taacatagaa nagaaatgga gtggtagata atagtagata 600
gaatggctaa atatttttat tacagtgatg taatatcact gnaatttatg gttaaaaatt 660
atgtaatact caaaaggaat tctcagactg gcgaaacagc tggncacagc ctntcacagg 720
gctttnanct cctnttgagc tttccccctg ntggacttta gtcttccttt tacncccgna 780
gttnccattn nttaccaatt gtnccgggaa ana 813

<210> 628
<211> 646
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

<400> 628
tttggngngn ggtgtctcnt ttgggtggac tttttgggtc gtagggcccc aaggccgtta 60
atcccgtaat aacggaagac gaagaagagt cagaagagtg cttctataag gatcgggacg 120
agactacctt agaggaataa aggaaaaaag cagaggagga agagtggtag aaggagtcag 180
aagaaaccca cacgtcggtc tgaacctgga gccttatcaa aaaggtctag ataaacgata 240
gcgatctcga tatcgagctc aagaggtagg tttagagact tctcgtcctc gagagcgaaa 300
tggaagatct cgacgacgat aagaagttaa agtgtagagg gtgcttgagg agcgcgtgga 360
aggattctgc ggagggaccc atcgacgtag agacttgaag gcctactaag gtccacaaga 420
agcccggctc tttctccgaa tggtcggagc gtacagtatg cgacgtcgat cggcagacaa 480

```

gctggcggtta gactcgaagt gttcgggcga atcgacttat aatagtcgcg cgctagtaac 540
gtaggaacac gaagagtagt cgaaagaaaa cgtttagtga gggaaaagat tagggaaaaa 600
ggagaggcctt aataactaag aacttggag cctaggccaa cgcgaa 646

```

```

<210> 629
<211> 617
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(617)
<223> n = A,T,C or G

```

```

<400> 629
gccccnccc ccctcctngg gcttatnngg acagaccac gtagtactct aaatcttctc 60
ctacgcgga caacggaccc tataccaatt cgaatcttgg aactccgac cgccggattc 120
tcttcccctt tcggcttccc ctttctgtcg gtaccctcc ctagtctgtc cctacacctt 180
cgtaccgtcg atatatagtc gccgcggact agcctattta ggtgtcctag actcgttatt 240
gatccactca ttagtctagt actatgcgtc acgtatctta gttgcctaag agggagatta 300
aatcctccac aagttccgac gaattcctgg actctcgtac tagcaaactt tcttatgagg 360
cttccttgta tatcttctgg atgtttctcg tgtcccgtc ctccgctact actagagctc 420
cttgccctat ctctagaagt agaggactct cgggttcgtt ctccaaatct agcgctagag 480
ctatcgctac ccgctcgatt cccccagcg aatcttgaaa cctgaggtag tacacaaacc 540
ctcncatct tccctcggtt gtccttctt ctcaccccc cttcccgct tctcggaan 600
gaatctactt tancttc 617

```

```

<210> 630
<211> 644
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n = A,T,C or G

```

```

<400> 630
cnntcggcnt gggttttntt ctgagnncc ccccccccc ccccccaaa cttacacca 60
ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgtatag 120
taaagtcctc tacctcgga gtagagaatt cggatattta attcagggtt agaggctcgc 180
tcgttagatt tatagtttag gtttagaatt ggaaaccttc gatcttctt agaagggtaa 240
taagtgaggc cctaaatccg totaaccaag gcgttaaggt ccgtacctaa acctagtctt 300
atcttctatc aggcgcacca atataggtag gttctacttt cgtataggcc ttaaggaata 360
gttcggtagt tatcgaaggc actcctctct aggctaggct tttctcagtc ttagtactcc 420
gggaccgtcg tcgcanaaat atcgatggac ggtagggtac tccgcgttac gcgtcgggt 480
agggatatag agcgaattat cggcgagagg cggtcgctan gaatcggtat caatatgntg 540
ttctttacc tacggatatc ggcagaaaac ataaaacctt ctnaccangg ataagggtatt 600
atcggacccc taaaataaca gtaacattta gantactagt accc 644

```

```

<210> 631
<211> 526
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

<400> 631
 ccntcggctt ggggtttttt ctgagccccc cccccccccc cccccccccc cccccccggc 60
 cccatagccc caccggnccc acccaaattt taacaaaata aatntaccta tcgntcacct 120
 atcccnegta tcgngtaggt cggtagccgt accgngatc ncnacgattn ttcgggtcgt 180
 cncccttaan acggncccggt agccnccgga anaaatacta cgagngactc taatntagca 240
 anaccgccc tcnattanta gcatccttag tcttccaatg ncnnggattn ngaatccttn 300
 naagttatcg ggtagaacgg gtcccggtcc cccgccctct ttncaattaa cgcgggtac 360
 aaantcgggt tctaaattcc ncacgaattt ngncggcaac attcnccggg ccttattanc 420
 cntttccaac cccgatacnc nagctcgatc gggctttanc gaatccgggg tcncccccca 480
 ngantccggg tcctttgagt ngctctagga cggttacgac ggagga 526

<210> 632
 <211> 647
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

<400> 632
 tttggngggc gggngctcat ttgggtggac tttttgggtc gtaggaacct ggtatgaggg 60
 gtgttttgag tttcttcttc gtcgtctctg ggaggttcgg tttcgattga gattcgggtt 120
 cgtctttatc ttacgaggca ccctgatatt gttgcgcttt ggtttggttg tggagagttt 180
 tgtcctactc tagcgggtca tgcggatgat atgtagcctg cgtggcctga tagtgatggt 240
 gtgagcttga gaggggagtt gtgggtgttg cgggcggagt aggaggggtt ggagcaccgg 300
 gattgggaga tatagaatca taagtgttag gtataggctg attgagcgag ttcgtggaat 360
 tcgtgtggtc atcataatta gaggtaggat gggctctata tttcttagag gacgcacggt 420
 cgtgattcgg ggtttgatgg gtgttcttct tgtgggcacg attagcttgt tcatgatggt 480
 aaggaccata ctgtttcgaa tgaggattcg tgtcttcgga ttgttggtga tattgtggnc 540
 tanactatct agtgtaagcc ggaggtggtt tgccgtggtg gaggatccga nnttcattcg 600
 ganggtatgc gtgcggagcg gtcctttag acattccgga aaaatgg 647

<210> 633
 <211> 630
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(630)
 <223> n = A,T,C or G

<400> 633
 tccttcgggt tgggtttttt tctgaccccc cccccccccc cccctcgga aggcctctag 60
 gctcccaccc gtctctctaa tctcaggaa ccgatccacc caaccaactt actaatgtcc 120
 tacagtaaac acccgagaat ataaaccac acctaggcct ccaatcctac cagggaagca 180

```
<210> 634
<211> 647
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G
```

<400> 634						
ccntcggcctt	gggtttttttt	ctgacccccc	ccccccccc	cctccactaa	gancttaacc	60
caaccctata	gtttactcgt	ataggggaat	cgaggagaaa	taggaacgaa	gagcgggtga	120
taaagagaaa	gtactttcct	ttatatgtta	agagcttagc	gtaatgactt	tcgttatatg	180
gctagttagt	tttatccggc	gttatagggc	ttagttctgg	ttatctcggg	tctaattccc	240
ttagtatgct	cgggagttta	acgaggtcac	gggatagcgc	gtaccctttc	taaggttcct	300
ggaaagctat	tcgttattta	tcgcgattct	cgaggtcgaa	aggatcaagg	atcttccctt	360
ttactaccct	agtcgggtta	gcggctcggtc	aaaactagt	tagtaccttt	acctcctoga	420
aagttatagt	cgaacaacg	tattagtctga	aattatagcg	gatagatcga	gacggttctt	480
tctcgggttc	tcagcccgga	atccctctat	ttgggggtct	tctccctctt	cccccttgtc	540
ttccgcctta	gttccaagg	ttcctcgga	gcgagggtt	ctacttaagt	cgntagcggt	600
ccttataaac	cncctacagg	cagacccct	tgtaaacggc	tcgggggt		647

```
<210> 635
<211> 645
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G
```

<400>	635								
ccttcggcgtt	gggtttttttt	ctgagccccc	ccccccccc	cccgaactc	gccttacccct				60
agatacccaa	agaatagttc	cactcaactt	cgtctaagta	aaactctaga	acttccaaac				120
ataaaaagact	tcgcgcgggt	agctacacag	cctacgggaa	tctcacgaat	cccgattcaa				180
gtcccactct	cgaccacacc	cgggtatcgt	cgttttccca	taccaatgtc	gaaaaataaa				240
ataaaatcca	gtcaagcccc	acggttaagcg	ggggtagggc	taggcgaaga	ggcaggaacc				300
gttcgaggcc	gggggctttc	aaaatacaaa	acaactactt	aaagtttacc	ccttctaagg				360
tcggggggcaa	cggttaaagc	acgcctctaa	agtactactc	gtttcgagaa	ggggtagtca				420
tctcccgcat	agagactctc	gcgtatatca	actcgcactc	cctctagcat	tccgacggtc				480
gcccgcggt	acatatcttg	cggattatct	ccgagggact	atagggttaa	ttagtctagt				540
aaattctctt	agaggtagtg	cggggtcgta	gttaggcagt	acgaggggac	atggngtcgc				600
tcgtgctcta	ccttgacagc	atactcttat	aaacatcttt	ttcct					645

<210> 636
 <211> 643
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(643)
 <223> n = A,T,C or G

<400> 636
 ccttcggctt gggttttttt ctgacccccc cccccccccc cctagcggaa aacaatcccc 60
 accgagattt tattaatcgt aaaactcgcc ttcggtacca agtcttcctc cttcccgtaa 120
 cctggctccc tcctagnngc tttacgaacg tccctcctct tcttacggct cggaagtgtt 180
 tacggttaaa tccggaggng gggctaacga atccaaggct aactcctctt anagtttggt 240
 gtcncncgt ttagtaagga tccgtggagg gcgagtattt gncccccggc ctttattnta 300
 tagttcccta gtacgataaa gntaccggct atcctattac agcggataaa agttatttan 360
 agggccgacg tcnccgctag acaggctaca gctagnggag gtaccgcctc cgactantcc 420
 gttgnttccg acaaggngagt ttcggttaac tccacaaact cctccgccga ctctanggtg 480
 gggacggcag ttccncggtt tagtgtgcgt tatagagaag ggcatttgag ttggacgtta 540
 cnttttaaca taggttattc cgtttagggt cttgcgggcc cgtgggggta gtncnccggc 600
 gcgttnntat cggcgatttt ccgcagtttc cgtttccggg tnt 643

<210> 637
 <211> 631
 <212> DNA
 <213> Homo sapien -

<220>
 <221> misc_feature
 <222> (1)...(631)
 <223> n = A,T,C or G

<400> 637
 gggttntctc atttgggtgg acttttttggg tcgtaggaac cggtatgnag gagtaggagt 60
 cgctgggaag actagaagtt agctacggac gattagtgtg attccactct taataacgag 120
 taatcgttta cgtcgggttg gtgtttcggg gttttggaga gtaagcgtag ttgtggagtt 180
 tcgcatatag gtccctttac ttccggcgatc tcgtcttctg tcggttaggt tattattggt 240
 catccttcgc attagtagta gggttggtcg gataaatcga tagctattct ttagaattcg 300
 tagtcggaga attcgtgtac gaagtccttt aagttcttta agttcgcgag taagacgtgt 360
 acggttattt tgcgtcgac gtaggtgtcg ttacgggag ttctgtttta ggggtttacg 420
 tagaacgtta ttaagcacgg taatacgata gaggattacg cgacgtattc gtcttagaac 480
 gtcgattttt cgaaggcgca tttgttatcg aaggggagtc cttggagaat cgagatattc 540
 caagaatatt acggagatta cagatcgga ggctcccgag atcggacgta ttaccggtct 600
 cgcccgaaac gagtaggtat cntccgata a 631

<210> 638
 <211> 606
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 638

ccccccccc	ctcaaccatc	nattccccac	ctcaacgcga	attacggttt	cgaaagtcga	60
caataagtcc	ggtcgagtag	agggaatcag	gggctggtan	aaaggaccac	gggcggaaaa	120
taccgggtctc	cttccgggga	gcgacgtcgg	ggaaagggaa	gagagcggtc	tagttcgtag	180
gcaaacaggt	cagaaaagt	aagggttaaag	gtcggagggg	agaggatagc	tagtacgctt	240
agttcggggc	tcgggcgcag	ggccactttc	ctctttcgcg	ttcctttact	ctgcttaoga	300
gttcaggctc	cggagttccg	cgccggaggt	cgtcgcgacg	ctaggaatgg	ggactcgcctc	360
agtcctccgt	tatccttcgg	gattctatgt	tttcgccgat	agacggagac	cgggtagtag	420
ggttccgtcg	taccgccact	cgtcgccttg	atccggcccc	ctccgcttaa	ggcgatgaa	480
agattaggta	ttagggctct	acgggacgag	gcatagggcg	ggagaagggg	ggaggggtcg	540
ggggtcgaag	ggantaagaa	atcgcantcg	cgcggggtcg	gtagganccg	aaatttttct	600
cnnctgt						606

<210> 639

<211> 592

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(592)

<223> n = A,T,C or G

<400> 639

tccttcggt	tgggtttttt	tctgagcccc	ccccccccc	cccccgggaa	cgagaaaaca	60
atcccaccc	accgcgggga	gtgggttgna	cgcttagttc	tagaatcctc	ggaatcgctc	120
tccggcggtg	gtagttccgg	cgattccgag	tatgccgaag	tgtatcgctc	cgtctagagg	180
ttgggtatctg	tttatcgcga	tgacgctatt	gactcggatg	ctttcgaagt	agggggatag	240
gcgcatagat	acgcctccgc	ggtgtcctct	gaagtggccg	catccgtgga	cgcagcgtag	300
acagctctgg	tggacgataa	cggcttctcg	tactcctact	cggctatta	tgttagagag	360
gacttgtttc	tgaacggata	taccattagc	gaaggggtac	cctccgctaa	cgcaggcggt	420
tctaacagtt	cttccggggc	ctccgaattt	agattgacgc	ctccgcagca	ttgtgggac	480
ctcttccgtt	agccctcttt	ataggatttc	tcctccgccc	cgaaagangg	ctggtcgtcc	540
ccggcangta	tgtctagctc	gaacgctttg	ttactccttt	gttttcgaaa	na	592

<210> 640

<211> 637

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(637)

<223> n = A,T,C or G

<400> 640

ctttgtggcg	gtgngtgtct	catttgggtg	gacttttttg	gtcgtaggct	tatccgggtn	60
gggctcccga	agtagcttag	gatcgccggc	tagttccgg	cccggccgctc	gaaagcgcg	120
ttcggcgggc	ggcccccggt	tcgttcgcgg	gctttaccct	catagagtgc	cagggtctcg	180
ttcttacggg	ttcgtcggcg	atagatttta	cggcgagagg	tcggtatctt	cgccgcttta	240
cgttcgggtcg	gcactctacg	ctagttcaca	ggtagtttat	gcgccggagc	gcgtgacgga	300


```

gaggttatac gggacgcgga agaaccgcct ccaaatagact agtacaggct cgttcggggcg 360
tagatctcct cgctcgggtcg gcgggttctta cttctagggc cgctctacgg ttttaaggcgg 420
tcgttagatc ttagaaacta tactcaagtt tcagtcggaa gaaaggaaagt agagagaagg 480
gtaaacgatt acctccgggt ctagcccttt ttactcgcat aacgggagaa cgggggtccgg 540
ctctcagata cgctcgcgga gacgtcgcga ttcaacttta acctccgcta gggcatccgt 600
atacgggttaa cgcggtaaaa gcgacctcgg aaaccte 637

```

```

<210> 641
<211> 649
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(649)
<223> n = A,T,C or G

```

```

<400> 641
ctntgtggcg gtggttgtct cagtttgggt ggatttttgg gtcgtaggna acctggtatg 60
aggtctagtt tcttcaacga ttcttggttc agttacgcga ccctatcctt atcttacaat 120
gtcttctaca tcaggttcat caattaatat atcaattaca cattaacgac ggtgtgacgc 180
aatatgagaa agtatacatt aagggtatta tatattattc gcttaaaaag gttcctgaca 240
tgggacaact tcaccaccca ttctagaagc cccccctcct gtaggacccc ctcgagttcc 300
ccattatctt agttcagttt tcatttttta accaggaggg tatcggtttt taataggtac 360
tattttgtca aacttttcag aagctttatc ttcaaataata cttgcaccat ctgtactagg 420
agcactaact attcgagtct attacagctc aacagaaaat aattgaaatt aaacaaccta 480
agtatcgtcc accataaccc catcgggctc tcaccccat tcttcataag ttctagagca 540
tcctgagctc tttcctatta cccttgatgg tactcatggt ctaatacccc ccgcagttat 600
aggtccttat ggatcctatg ctaccaccgg tctaatecct tctatcacn 649

```

```

<210> 642
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 642
tccttcggct tgggtttttt ttcgtcgcgg gttactatta tcgattgtta cttgtaaagg 60
cgatactccc accgctcacg atattagacc tgctcctcta gaagcgaacg gcgataggtc 120
tactcggccg gcgaagacgg cgaacgggta ggaggagcca tatgcaacco taacggagat 180
tataagtact gggaaaaata ctagtattaa ggtagcgggt taagatagggt ggagagacac 240
tattcacgag cataagcact tagaaggctt tctcgaggag aggtaggcta cggactacgt 300
tccttcttcc tctagcctcg agaggagta tagatgattc gcaaaagaga atccctccta 360
tacgtggca taactagacg acgcgtcgtc gggaaatctc gccaaccta ttgcgacctc 420
caaaaggaag attgtcgttt catagaacgc taatactccg ggtcttcccg aatcatagcc 480
gcatatcggg aagaagacgg taaaatcgcg cgattctaac aagattctgt agacttaagg 540
ctaagcacta gaagcgatct cgattccgga tcttaagatc atactaatag ttcggtcaca 600
ccagacgacg attagccact agaagcccta ctccgtnгаа accgg 645

```

```

<210> 643

```

<211> 586
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(586)
 <223> n = A,T,C or G

```
<400> 643
ctttgtggcg gcggtgtctc atttgggtgg atttttgggt cgtaggaacc tggatatgcag      60
ggtccgcccg gaattaaaag cgggatcccc aaaacgnngn ttcgcaagaa gagaagaatc      120
atagcgatag anctttcata gtacaaaggt aactaagagg aaaataatgc agattcagaa      180
ctagttgcca aattagaact cgattaggcc aaggatccga gcctggcgct atcacttcgg      240
gacttaagct acggtagagc agtcggtcct gaagcatagc tcccgtagga cgtaggaaac      300
tagtcggcca cggaggacat actctcgagt ctcggaacgt ctatttagaa tataaacgca      360
ttaacctcag aaggcgccga cgcggttact ctctagggaa ctatttcatt ccttcgggag      420
ctcccctatt tttccaacac atataccggc aaagggaaaat cttntgtcct cgggtctaaag      480
agagggaaaa aaaacgatat ctaggttcgg gtttatccat ttaaaaanat ngacgcgact      540
actccctttc aaaggaggtt tccccctagg nagagttcaa cngaag                        586
```

<210> 644
 <211> 646
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(646)
 <223> n = A,T,C or G

```
<400> 644
ctttgtggcg gtggttgtct catttgggtg gcatttttgg gtcgtaggaa cctggtatng      60
agggtatatt gacttgtttc tcaaattccca tggatatggtg ggtggcggtgc ggggtggcgg      120
tcggttcggc ggggggtggg gtcgtcctcc aaaggagttg ctagagggtt tttagtgggt      180
ttagggcggg aaggggttag agcggagaga cgtcgtcgtg gaagcttctg gcggagcgcg      240
agaaggtagt tagcgccggt tcggaagatt ctcagaattc gagaagaggt agtggggcgc      300
ggagagagag tttctaagtc taaacgtaga ggtcgtccta gtcgggcccg gagtagcttt      360
taagctagag gtcgaggtcc tcgtttaggc tccgggctct tcgggcagta tcctctttct      420
cgaggaacgg agcgaccgac gtcgtagccg gacccgtcta tccgtacgtt tagagatacg      480
ctcacctcca cgggcgtata tgcccgtata cgtataaacg cgtaatatac tcgcgcgtaa      540
aacacgtata cactatatac acgcatcgta cggaccgtat agcgttatac gcgcgcgtat      600
attaatttac acttatatac gcgttaacac gatatatcac acnccg                        646
```

<210> 645
 <211> 654
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(654)
 <223> n = A,T,C or G

```
<210> 646
<211> 645
<212> DNA
<213> Homo sapien
```

[illegible]

```
<210> 647
<211> 753
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G
```

<400>	647						
accttacctg	gtaccggggc	ccccctcgag	tttttttttt	tccaaataca	actcagattg		60
tatacgaaaa	gctgataata	cattgacttt	tgctgtttta	atcccttgag	cctttgataa		120
tgattttttt	tgtgttaaca	attgtagtat	ataaaatcgg	attcaccatc	cttctgatgc		180
catattgatt	agtttgattt	tatgggtgatg	ggatcattgt	gtgttaactg	tattaagaag		240
aaatggattt	gattgacttt	gcatccattt	ttatctgtgt	tactttcatg	ttttatttaa		300
aagcatttct	ggaccagaat	aagttaagtg	gtataatttg	ctttttacac	gtttatataa		360
ttgaaqttag	caatgtggca	aaatctctaa	tggaaataaa	atgcttcaga	atgatgacat		420

```

aaatctgagc tatttcttgc ctggagaaca agtggttattc ataataattht aatagctttct 480
gaggtgtttt jttcatgtga tgaaggctta tccaccttgt atcaattcat gggctctgct 540
ttgtttaatg tagtcagggtt gtttaatacna gacttaagag tcatcctact gtgataagtg 600
gtgagtgaag attacatgtc ttangaaaat tatactggga atatctctga cattaatggg 660
tttaaagtgt ttaaggctag gggatgatgc aatgganaan atncttccaa angtttctgg 720
ttgtttatat ttgnggaagn catnaagana ccg 753

```

```

<210> 648
<211> 383
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 648
gatatcccg ggaatgagg aggcctttng gcttaacgtgt ttaccgcgta gggcaaagcc 60
ttgncaaatt cccggccagc ggagcggcga ggggtggggac tcacgggaag ttaaacagcc 120
tcgtcggcgt cctcgaggct ccaaaaaccag gctctaggcg gggacgactg cagccgttat 180
ggaggccacc gcggctacgg ccgcggctga ggccctccca ggtggagcgg tggcctggag 240
gggaatcttg atcctggggc agccacctgt caagaggagg cggagcgtca tgcctctgga 300
agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat 360
tgaatgctgt ctgatgctac aat 383

```

```

<210> 649
<211> 349
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(349)
<223> n = A,T,C or G

```

```

<400> 649
cgattgtnta cnagtcttag agtaagctta agntcgntac cgagctcgga tccactagtc 60
cagtgtgggt ggaattccat tgtgttgggt cactagtaaa tggatttagc tagacanagg 120
anattttacc tattccattt agcacagtga gganaggcta nacagctagg atgcaataaa 180
aaaaatttta atgagaaatg tgtgtggttag attaatctca ttaatatcaa gttatagatt 240
aaaaatttta agtaccncat aaatgccatt tgcctttgct aangntacat ttttatgaan 300
aangacntg catacnaat ganatactgg actttnggna ottgangga 349

```

```

<210> 650
<211> 306
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 650
cattgtgttg ggagcatcct tccatcagct cccatgagaa attctctgtt gggtttaagc      60
aatcccaaaa tatatcatat tgacatgaat atatcatctc ctcaatgtcc agcattagca      120
gacaagatga gtgctgaaga tgatataact cctacctctt atgtaggcta gaggttaaagt      180
ctggctctgc tgactgtggg gacataccga aaaggaatgt gggttaatat cagangacct      240
ccctgcagat ccganantca gggnctggac tttctgggan aggaagcnaa aagttatntc      300
tgaacc                                         306

```

```

<210> 651
<211> 769
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

```

```

<400> 651
cattgtgttg ggcagggtca tttctaaggc atgggctgga agcttttatt taaaacttta      60
catgtcttag aagcactctg gttgttgcta ggcagacaat tttacatctc ttgctatacc      120
agttgcatga agttcatcat gcatattggc tgtggaaaac cttaacagca tcatgtcata      180
aggtttcagt aagggtttaa tgaaatcatg tattaagcac ttagtatagt gcaccttaaa      240
tgttagcttc aaaacaatga caacctaaact aatgttgaaa gaagcttgtg tttgtaaatt      300
atgtcttatt gaaagatgtc atcaaatcct gttattttota atcccttaaa gtctctcaat      360
gtattttctt ttgccatata caatgacagg accttagttt aagccagtgg ttctctcaac      420
ttctaatacca gagataacct ggtgtcccca agaccttttc agagcatcct tgatgtcaaa      480
accattttta taataatatt aaaatattat ttgtctattg tactcttatt ctctcccaa      540
tattcagcga gttttccaga agctatataa catgtggtaa catcttatca ctctgacgat      600
taatagaata tgnngntttg gattcttgng tttaaaattt tctcactttg gggtttcta      660
atggnnacga ttaatagata tggntcccat gaccagangg ctttaaagca ntcaataatt      720
tttaagagac taagnactat cctttaaaga tngngaactc catcttaat                    769

```

```

<210> 652
<211> 267
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

```

```

<400> 652
nnangccctt taaccattgn ggcctccacg cnnatggcggc cgctctacaa ctagnnggatc      60
cgcnaactcta gnanaangat tggctcttnt gggntgggcc ggnccgggctg gggcgtaag      120
cggggctggg cgcgcgccgn ggttgnacna ggcgccgccg ccncacacn cccggagcac      180
cctcnttgcg gcentncccc gctcaccccg cgcgcgccgn tccgcttttt ccncacccan      240
agcncntttt atctntgtct cctccgg                                         267

```

```

<210> 653
<211> 501
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 653
 cccnttnacc cattgctgga ctccaccgcg gtggcgggcg ctctanaact agtgggatcc 60
 ttncnatgag atgngcgang gaggacnnat ttgctatnct ggatggggct gantcntnta 120
 gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg 180
 cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg 240
 ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat 300
 ggacntatca ccntanaggt acanntnccg caccacacac cngcttgcn cctgacgctg 360
 gactggatcn cttaggccac caatnccccg tttncacat ncctgggacn ctananatac 420
 tcganggggg gcccggtanc caattcgccc taatactgag ccttgntacg nacgctnact 480
 ngngtccta ttanaacggt g 501

<210> 654
 <211> 710
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(710)
 <223> n = A,T,C or G

<400> 654
 gcgntttan cncatgctgg gctccaacgcg gtggcgggcg ctctacacta gtggatccca 60
 aactgagtc caccacagna aaactcanca ccaggcagac ccacaactg cagaatccag 120
 gctgcaattc acagactaat cntctagacc cactcagta ccagatggta ccacacagct 180
 caaggnttta ggtttgctg gtanactcaa tctctatctt tcaccactgc cagcctgact 240
 tcagagatcc tngctctgg acagtcctca gtggcaggca actctcagga gcctcaggnt 300
 tttggcacat ccagnacca gccagctgcc acaggccctg acctntanc aacactgccc 360
 atgtattcca gacttctanc ataccacagt gccatgetga ttgcatctat agangctcag 420
 gtgcncctca aanctgtgcc tgetgcagna ngccccacgt ctctggcatg cccaatgcc 480
 atngtggna acanttgact tctgggcatg ntgggaattcc ctaccactga ncctgaccat 540
 agngggganc ccattttttt cgaggggggg gcccgcccc caattccncc ntatagnag 600
 ncgtanttac gcgcnnctta ctnggccngt ngtttaacaa cgtcnntgan ctggggaaaa 660
 cccctggngn cnacccaaata taaacngcnt tgcannacat ccccttttcg 710

<210> 655
 <211> 202
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(202)
 <223> n = A,T,C or G

<400> 655
 ccccttttnc ctttcanccc ccccgttttg gcngccgcn acacctactn catccacca 60
 cantcgacca cccgagcttt ttccgatcc cancatcnat gcngattttt tctntgcntg 120

ctgngcctgc acctttgnta ggtcaagcct ggcccatctt cgacaacttc ctcatcacca 180
acgatgaggc atactctgac ga 202

<210> 656
<211> 308
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A,T,C or G

<400> 656
gctgntgaaa gaccacaccg aaaaactctn ctttccgact tccacatgat gatcngcatg 60
tggtggtgag agacttatca tgacgacatc gcttccnacc atcgcanccn ctgcccgaagc 120
ccattcatgg aggctgggn anttctgtga ntgaentnga cncctanacnc tnccactgtn 180
tgctatccag acttgnttng aatatnttat tggcnaaana canttnccgga atgctgtgnt 240
tgnnccattga angatctgat cactatgaga ggggtgaggac nncctgctng ctggcantnt 300
ntaaccn 308

<210> 657
<211> 696
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(696)
<223> n = A,T,C or G

<400> 657
accntttcca caatnctggn ctccccgcgg tggcgggcgc gtcgaccagc aacctcagct 60
gtgggtcttg ttacagtaat gagttactgt aaggaaaagtg tgacatttcg agcaatttga 120
tttgtttaaa aactagagca gtttcagggt tttccttgta aatctgtctt atgtgtcttc 180
aatgtttctt cttgaggagt agagaaagga attgttagga atgatgcata aacctaggct 240
tattttatct cgctgccacc cataatcaga gcagattctt gggactatga ccctcatgga 300
gacatgacaa ttgtgtgtgt ggtgggtggg agaaaagagc tgggaatttt tagggcttag 360
agggtccaat caggactatt ttatggagct ctgctcacca actttaagtg agcaccaggg 420
gtgngaaagc gaatcttggg ntcaaaaanaa caatggnaag gggtaagttg gtatnctgaa 480
ctggccactt cggactctta tttaactggg tattctcant taaggaggcn ngggtgggtct 540
tggcttgtna aggaaagcct gtgcaatgga atgactttaa aaccccccat taaaaaaaaa 600
angntataaa tcttgggtct taanaangaa gcctgggttc tnttanccca ttttnccccc 660
gggaaggnaa atnttcttag gnaanggaag ggaagg 696

<210> 658
<211> 698
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(698)
<223> n = A,T,C or G

```

<400> 658
ctggactccc cgcgggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc      60
aaggctgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag      120
cttgtgttgt ttcatgctca gogtggaggc cctcctcca ggtcgtgct ctgtgggggt      180
cccatacact caggctccta ggaggagtcc atttagaaag ccagggtttt tctcagagtc      240
ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc      300
aagagaaaag acagggaaaa taagagaggg accttgccaca cacacgctct ggaccacaga      360
gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcaggggtct      420
gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg      480
gtttctccta cgcactctta tttgcagagg gaaaggcggg tttgtattgg ggttgtcggg      540
ctttgcaccc acngcacagt tgtgagacac ccccatcctn agatcaaagc cccacatata      600
gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttgttgg      660
gnaagttttn aatttncttc cccnaccan cttgcttc      698

```

<210> 659

<211> 750

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(750)

<223> n = A,T,C or G

```

<400> 659
ncaanctggn ctccaccgcg gtggcgggcg ctctagacta gtggatcctc ctcatgggcc      60
tg gatatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt      120
gaggcctaag aatgntatct tcttttagtg atggtctttg tttgcttctg taaggactt      180
gtgggcactc gtaagcttgg atctctttaa tctaatacca gntttgagat tttcttggcc      240
ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctccatagggt      300
aagtcttttg gggctccaag tcaaaaagat gagggattta ccagtctctc aaccttggt      360
gccccagact ccaaactttg ccttctagtc ccaagaggct atcaaaaagc aaaggccatc      420
ttccacactt ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc      480
ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc      540
acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt      600
cagcttggcc ccctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt      660
tttntggcc cctgactttc ntttttagg gctttcccc angctttgcc cctttggtta      720
aaggggttat tttccttccc cttttggaag      750

```

<210> 660

<211> 849

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(849)

<223> n = A,T,C or G

<400> 660

```

tcggatccac tagtccagtg tgggtggaatt cgcggccccg gtcgacgggc agtagtggt      60
tgcntntcta aatgttataa ttatttcaga attactctgc cagaaagtta tgatcatata      120
tagaagagtt tgtagctaac tttgaaagta gtggaaagtg gttttcatgt attgtttggg      180

```



```

ttaaatttaaat tttgattata tttgggttttt agttcaggta atttttttgt tgaaaacttc 240
aaatgacaat ttcttcatgg ttactaaaga tcactcatgt ggagtagttt cagatttttt 300
tctgaataca tgtattactt ttagagatgt aaagatgtga aattactaag agagaaaccc 360
atgtgatttg tttagtggat caaaagtcgg tagctccttt gatcctaagt gccactgata 420
gttaaaataga tactgaagct atgggcaggc tggattgata agaaaaaagg agacagagaa 480
atgggaaatt gggaaagaac tgtgcaaata ggaaaaggag agagcaacag aacagaatta 540
gtaccacagt gccgaagtgc cacctcaggt acttccatct cccatctcct gaagaattca 600
gtaacagttt gcaaatggtc aacacaatca tttagtgatc ctggttgata ttttcaatac 660
tttctgggga tttcttggct ggnttcaaaa gatgatgctg atagttttat tgcccctgaa 720
ggtattctga agnttancat aatttattgg tcagtaaaat atttgaataa aagngganga 780
aggaaaatct ggcntcttat tttgggatnt cngcnggggg aangaggata taattnaccc 840
cggccttgg

```

<210> 661
 <211> 653
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(653)
 <223> n = A,T,C or G

```

<400> 661
aacttaagct tggtagcgag ctccggtccc tagtccagtg tggtaggaatt cgcggccgcg 60
tcgacctcca ttcgtttctt gtcctttttt ttcatTTTTT ctcatgttct attcacttta 120
ggttttctaag ataaatatta taaaataatt tttacttata aattattcac tgataccctg 180
tctttaacat gtgaaatgaa ttcaaaaagga atcttaatga gaaataatat actcatgatg 240
tttaatagat ttgatttcga aataataagc cctctgaagt cctaagttaa aaataaagca 300
acttgtttga taatttttca tcaagaatgt atctgagtct ctgagtaatt attagtagga 360
atattccatt atcacaatta cacagtataa gctatttagt ctaactttac caaaaaaggg 420
agctacttca acactgtgtg agacttttaa tgggtttgca ttgggtatgc actattagca 480
agataaccta ttttacagca gtgtttntta acctttccca tttatttgaa aggcagctaa 540
gatatagtag ttaatntaan gggctgatgc atttatatta catgtagana atgggagata 600
cnaaagggag nggggggana tnttttgnat tcnnaagctt cnttgncaat taa 653

```

<210> 662
 <211> 646
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(646)
 <223> n = A,T,C or G

```

<400> 662
aaacttaagc ttggtaccgc agctcggatc cctagtcacg tgtggtggaa ttgcgggccg 60
cgtogacca gggacaggca gccagnctg gggtcaccag ggtccctct tgggccctcc 120
aanagcaaca gtactggcaa cagctgggat ttgctgagca cagactctgc agcaggctcg 180
gttgagctct ctgtgcctgt tccttcatac catcctcacg cccatccatg agatgggtcc 240
agctgttttc agatgagaaa atggcacagg aagctggtaa gtgacagtca gaaatgaatg 300
ctggcagctt antccttgga cccaccgcag tgcaggacct tgctcaacag ggatcaccct 360
tgtccgccac ctgttcatga ggccaccag ggtttgtgtg gtcatttgtc tcctttcatc 420

```

tgcttgccctt	caaccagctg	ggtcattag	gctggggaac	ccagacccca	cacagtcctt	480
ctcccagang	ccagacacan	nctncgccac	agnaaggact	tcagtccccg	aancaaagt	540
ncctgggcgt	anaaaotgna	gggncccca	tccttggtgg	ggtactgctt	tgcactggng	600
gaattcaccc	ctcattgna	acctttccct	ntnncaccc	ctaaac		646

<210> 663
 <211> 650
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(650)
 <223> n = A,T,C or G

<400> 663						
aacttaagct	tggtaccoga	gctoggatcc	ctagtccagt	gtggtggaat	tcgcggccgc	60
gtcgacgtcg	acgcggcgng	cogtttogac	gcagttgata	catattatta	tatactacat	120
nggttttcta	gaattaaaaa	attaatgtgt	agtgccagcc	ctagatgtaa	gttacatata	180
tcaactctat	ccaattttgt	cagccataaa	acttaccttt	ttcacatact	tctaactcta	240
acaatgtgag	aaatgtagat	cattgcaatt	ataccacaa	ggcagatggc	tacatgcaga	300
atggatagca	gaatctagct	acttacgcta	gccacatggt	agacgttttt	tcctttgttt	360
ttgcaaaatt	gcaatataag	ttgcatatcg	ttagagtga	aagatgtaa	gaacccatag	420
aagccagtga	tgaaggacat	ttatattttc	acctttacaa	angaccttaa	aattgcctat	480
gtggagcaga	aactggagga	gggcnaancc	atcngtaaaa	aaaattttgn	tnctatttgg	540
atgtgggcac	cattattacc	tccccaggtn	cctttttgnt	ttaacctttc	ttttaaaaaa	600
aataattcnt	aatttttggg	caaaaaaaaa	caaggttttt	atttaaattt		650

<210> 664
 <211> 678
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n = A,T,C or G

<400> 664						
taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	ggggtgtagt	60
actcatcana	gctaaatgag	agcgcttta	aaatgttagt	ttgtcttccg	ccattttctac	120
agaaagctgc	aatttcaggt	tttcaaccta	ataggtgata	tttaagaaaa	aaaaaaagca	180
atcgcaaata	gccccactgc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca	240
ggtggcctaa	tgtaattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc	300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	360
agcaaaaacta	ggcacgattg	aaatcaanat	cttttaggca	agaaagtcac	gatgagtttt	420
anaattatct	taggactctg	tggctttctc	ttcatagaaa	tagaaaaaaa	aaattgtata	480
aaaaccacaa	aaggtcctga	atagcccaaa	gcaacactga	acaaaangaa	caaagcagga	540
agcaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaa	acagcattct	600
attgggcata	aaatagacca	aagaccagtg	ggaaacagaa	taaagaancc	caaaataaat	660
cctatatatta	ongcccn					678

<210> 665
 <211> 694

<212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n = A,T,C or G

```
<400> 665
cttttcaaat cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt    60
gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat    120
cttaagtggg gatttatgta tttctcaagc aagtgattaa agcaaaacta ggcacgattg    180
aaatcaagat ctttttaggca anaaagtcac gatgagtttt agaattatnt taggactctg    240
tggtttttct ttcataagaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat    300
agccaaagca acactganca aaaagaacan agcaggggaag caacacacta ccngaattca    360
aattatacta ccagggtgta gtaacacaaa cagcattcta ttggcataaa atagacacca    420
agaccaatgg ancagaataa agaacccccac aaataaatcc atatatntac cgccanctga    480
ttatcaataa cnaacaccaa gaacatatnt taagggacnt nctattcaat aantagtgtc    540
ggnaaaaaact gggaaatcca tatgcagaaa naatgaaact agacccttat ccctcaccat    600
acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact    660
atnaaancta ctattaagaa aacagatcnc nccc                                694
```

<210> 666
 <211> 705
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(705)
 <223> n = A,T,C or G

```
<400> 666
tttaaaaatt tagatacact angaaaatta ttttagtatac agaagaatat caggggggtgt    60
agtactcatc agagctaaat gagagcgctt taaaaatggt agtttgtctt ccgccatttc    120
tacagaaagc tgcaatttca ggttttcaac ctaatagggtg atatttaaga aaaaaaaaaa    180
gcaatcgcaa atagccccac tgcttttaca aatcattttt tctcttctag gtatagcctg    240
tcaggtggcc taatgtaatt tttgacatct ctagggaattt taatagaacc agaaatgggt    300
gccagagata tgctgcact aatcttaagt ggggatttat gtattttctca agcaagtgat    360
taaagcaaaa ctaggcacga ttgaaatcaa gatcttttag gcaagaaagt catgatgagt    420
tttanaatta ttttaggact ctgtggcttt ctcttcatag aaatagaaaa aaaaattgta    480
taaaaccaca aaaggtcctg aatagcccaa gcaacactga acaaaaagaa caaagcagga    540
agcaacacac taccagaatt caaattatac taccaagggtg tagtaaccaa aacagcattc    600
tattgggcnt aaaatagacc naagaccaat ggaacagaat aaagaacca aaataaatcc    660
atatttttac agccagctna ttatcaataa aaacnccaag aacnt                                705
```

<210> 667
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)

<223> n = A,T,C or G

<400> 667

nnangacttt	tgtggtntta	tacaattntt	ttttctattt	ctatgaagag	aaagccacag	60
agtcctaaaa	taattctaaa	actcatcatg	acttttcttg	ctaaaagatc	ttgatttcaa	120
tcgtgcctag	ttttgcttta	atcacttgct	tgagaaatac	ataaatcccc	acttaagatt	180
agtgcaggca	tatctctggc	acccatttct	ggttctatta	aaattcctag	agatgtcaaa	240
aattacatta	ggccacctga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca	300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaatat	cacctattag	gttgaaaacc	360
tgaaattgca	gctttctgta	gaaatggcgg	aagacaaact	aacattttta	aagcgctctc	420
atntagctct	gatgagtact	acacccctga	tattcttctg	atactaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcacttagg	aggatctgca	agccgtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcaggggcg	ggnaaanaag	acatctgcag	cctaggggaag	aaaacctttc	gcattgttct	660
tacgtgttta	cgttatttta	tttccctana	caaggcngaa	ttgggactcg	aatggttcag	720
ttgggggtggg	ggtcccctg	gtncataaaa	ngtcanaaag	anggtacagg	cggaaaccca	780
agggtcgtcc	tgcatttana	ctcggaattt	tggtgcgc			817

<210> 668

<211> 826

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(826)

<223> n = A,T,C or G

<400> 668

cgggggggnt	tacgtctctc	tggacgcttt	tattgtacca	gggcatccc	agcccaactg	60
taccattcga	gtccctactc	ctgccttgct	ctagggaaat	aaaataacgt	aaacacgtaa	120
gaacaatgcg	aaagcgtttt	cttccctagg	ctgcagattg	tcttcttcac	cgccccctgt	180
tagctagcta	gctagctggg	aatttaatcc	agaaacggct	tgcgatacct	cctagatgca	240
ctogttttga	gttacaaaact	ccgcggatta	catgtctttt	taaaaaagtt	tagactacac	300
tagggaaaat	tatttttagta	tcagaagaat	atcagggggg	gtagtactca	tcagagctna	360
atgagagcgc	tttaaaaaatg	ttagtgtgtc	ttccgccatt	tctacagaaa	gctgcaattt	420
cagggttttca	ncctaataagg	tgatatntaa	gaaaaaaaaa	acaatcgcan	atagcccact	480
gctttttacaa	atcattttttc	tcttctaggt	atagcctgtc	aggtggccta	atgtattttt	540
gacatctcta	ggaatttttaa	tagaccagaa	atgggtgcca	gagatatgcc	tgcactaatc	600
ttaagtgggg	atttatgtat	ttctcaanca	agtgattaaa	gcaaaactag	gcacgaatga	660
aatcaagatc	tttaggccag	aaatcatgaa	nantttttana	attattttan	gaatctgtgg	720
cttctcttct	taaaatngaa	aaaaaaattg	tttaaaccoca	naaggtctga	atacccaagc	780
ncctgaacn	anagaacaan	gccggagcac	cccctcccaa	atcccc		826

<210> 669

<211> 547

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(547)

<223> n = A,T,C or G

```

<400> 669
cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgca ttgctttttt 60
tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
catgtaatcc gcggagtttag taactcaaaa cgagtgcac tnggaagtat cgcagccgtt 300
nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct 360
gcagcccngg ggnaaaaacc ttcgcattgt tcttacgtgt ttacgttatt ttatttccct 420
nnagcaaggc ngggantttg ggactcgaaa tggtagctt gggctgggga tcgcccttgt 480
tacataaaaag ncgtccagaa gagggacggt tacaggcngg gantccaaa ggtcagtccc 540
tgccatt 547

```

```

<210> 670
<211> 232
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 670
cgaactatit agactaccta ggaaaattat tttagtatca gaagaatatt aggggtgtag 60
tactcatcag agctaaatga gagcgcttta aaaatgttag tttgtcttcc gccatttcta 120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaagc 180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

```

```

<210> 671
<211> 214
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(214)
<223> n = A,T,C or G

```

```

<400> 671
ctcccccttc ntccttcgct actnncatt ttcnnaaatt tntttcgct atgnggaaaa 60
acaccacat tnttcanctc gcacagaaca ngnnggggtg tgtaaaatga agggcttcn 120
cnctttctct tattnaanaa cactnaaana gggangggct aaaaccgcg ngatntctac 180
nctatcgcg gcgcttttgg ngttggctag aaga 214

```

```

<210> 672
<211> 328
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 672
ngancagcgg ngtttaaacg ggccctctaga ctcgaggaga cncctgttgg atggtggatc      60
acanntcgnt actactatac aggacagagt atcggganct cttggntgtt ggngcctgcc      120
aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac      180
cggctcgaat gnaccatgga tgattcncnc tagttgaaaa aaaactcagg cacatgtatt      240
gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgncngtgtg      300
nccccgtgc tgnctccaga agaggttc      328

```

```

<210> 673
<211> 223
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(223)
<223> n = A,T,C or G

```

```

<400> 673
gggggcaaag ctggctagcg tttaaactta agcttggtac cgagctcgga tcccnagac      60
attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catctcacc tncctgncgc      120
tcaaaacaac ngctttctgc tgcaatgggt agggctcctn acncacggtc gcnnacggag      180
gccncttat cctctcgggt nnggatccct ngaagcatnt tct      223

```

```

<210> 674
<211> 256
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

```

```

<400> 674
gnnggggtcnt ngatgagcgc gcgtaatacn atcactntcn ggcgngntgg gtaccggggc      60
ccccctcnaa gcggccgccc tttttttntt ttttttcatn acatgataan ntctttnttc      120
taaacagacc acaccactan agttcctttt ctttngtacg gaattgagtt aaagtagagn      180
atacaatgca gggcttcnnc tctatttcac attccaggnt gggttcngnat ggatcgggcc      240
tgccctctccg atgggt      256

```

```

<210> 675
<211> 439
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(439)
<223> n = A,T,C or G

```

```

<400> 675
nnactagtc agtgtggtgg aattccattg tgttgggctt gtatgggttt ttttgtctag      60
ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct      120

```

```
<210> 676
<211> 587
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(587)
<223> n = A,T,C or G
```

```
<210> 677
<211> 444
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(444)  
<223> n = A,T,C or G
```

```
<210> 678
<211> 670
<212> DNA
<213> Homo sapien
```

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 678
 actagtccag tgtggtggaa ttccattgtg ttgggagcag tttaaaaaaa aaaaagacna 60
 aatatacnac tcttgatnaa acataaaggt acagtgggtct atgaggaana gaaaagggtac 120
 ctnaggatgc aaaantacct accacatggg aaccgttngt ccacactcat tccnnanaaa 180
 accgagtcct ctcanttnca cacgtgtacg tttcagttgg gaagtgcctg ccattactcc 240
 naagcctaga accttcacgt cctgaagggt ctggaagggt tttcagattg cttaaganac 300
 gcngcccttc catattcntc tccactaccc nggggaacgg aacaaatgga gctgcgacng 360
 ggaagcgtcc ctcccntcc gaacgctttc tttcaaacct gcctgccttc cnggcgaatg 420
 gaccggaagg tttncnngct tcctttcanc ccaattact tcctgngttg aaaattggcc 480
 tggttggttg caaatgcngg aatttggtta ctttctcat gtctgtgtt gnnncnaaccg 540
 gctcncctgt tgcctccctt tngaaagggt ttcacaggc cccgcccttt ctcttntaan 600
 ngtcctaate cggncnggac cactcgggga aaattttttc ttttcgaaaa gccgccccnt 660
 ccgtccggct 670

<210> 679
 <211> 449
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(449)
 <223> n = A,T,C or G

<400> 679
 actagtccag tgtggtggaa ttccattgtg ttgggagtag gtctactaca ncctacttcc 60
 cctatcatan aagancttan caacnttcat gatccccccc tcntannco tttcctcanc 120
 tgcntcctag tccgttttgt cctnttccta acantcntaa ganagatnac taatnctact 180
 atctctnacc tccggaanct acaanacgtc tggaactatt cngaccccat gcancncat 240
 nctccatcgt cctcccagcc cctncccttc ctttactnta ctnaacgaag gtcgacgatc 300
 cctcccntac ctcccnnc cttgggnccc aanggnactg gacctcacga ntacaccnac 360
 tacggggnga ctaagnctgn aactccttac atatntcccc gttacccccn gaacncagcg 420
 aacngcnaca ccttggacnt caagaanta 449

<210> 680
 <211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 680
 tttcngtgtg gtggaattcg cggccgcgtc gacgagaaga nggaggagga naaggagaag 60
 gagaagaagg agaanaagga ggagaaggag aagaaggaga agaaatcatc atcatcatca 120
 tccactgtct ngcaactatt taagtttgcn antcccttga aaacaggtag ttttgtttca 180
 atgtttggga ccaactnctga cnatgannag aanaccaata aatgcttgat naatgaaaaa 240


```

nccacttttt accgtgtaga accctgaggc taagagaant gatgtgactc gacttagtta 300
ccacaaacta tgatcctagc atnaattggg gcactctcaac acctcaactc cctgtgcaag 360
aacagatttt caatgtotac tgatgatttt aaatggatta nttcctctct ttacttctta 420
agggcatgaa gntttatgaa acaaaactat ncagttccag acgcttaacc cacatagtgt 480
taatagtcac cttcaacaca cnactaaacc cccaaaaaan gntttttacg gngtttcgac 540
agttttcttt tctttttgac ttgnttaaca cccnngacaa ctttgtncn tttccntgaa 600
tcacancctt cnaanancca atggtncggg tttttctent tcnnggccct tcccttnttn 660
aaaaccanat 670

```

```

<210> 681
<211> 494
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 681
tcattggtgtc cacagtctga tgtgagcgca ttaaatttaa ggatctccgc ctttctcctt 60
aaaactcagg acttggcaat gancctagga agcgcccctc ccctcccan ccanatccaa 120
gccccggacc gctgcgctc cagctgcgcc tagtgaaacc gccgaattcg aattcacact 180
cggngggccg gcgaaggtgt gcgcgccgc gggagcgccg gggcnagccc gagggactgc 240
aagccaanaa nggaggtatg ggtggcgggg ggcgcgctct gatccaggaa ggagcggagg 300
cgccgatcac acactcttna gacgccctgc ccgcgccttg ccagcgcgca gnetgcagga 360
cgcgcgagc aggaactcgc tggagtttgc caagcccan gnetctggaa agtntgtagc 420
tccctttcgg ancgnetctt ctggccctt gggacgggtg tgtcattggg cgggggtctg 480
tataaggggg ggac 494

```

```

<210> 682
<211> 263
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

```

```

<400> 682
tgatcattca agcgnctgnc gnataacgat tgctnagccc aacctttcat agggtcgttc 60
ctttgggaat nggatgtcta ttgaatggca gggatagggg cactcgcat tcgcctctgg 120
tacagttttg catatatatc ctcatcgca gcgagcgtag gggancgtta agtttgggga 180
aatgccnccg catgnccctn ccggagctta aacccccaac aatnccatt ttnaaaaaag 240
ntttnttant taaaaaaaaa aac 263

```

```

<210> 683
<211> 255
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(255)

<223> n = A,T,C or G

<400> 683

cttgcceggc	atgcacagac	ntntttacgg	acacnctact	ccaagngagc	ctgnanctgt	60
ctacgggtcaa	ncctctaaggt	tngncantgc	cacanatggc	atagtcccga	gggcggtnan	120
tctggantgc	tctctgcact	tgaacntaaa	gcgnttttca	aganaggnet	aatngcctgc	180
ctcttgacaa	cnaacaancc	cacaccnacc	tangacctn	tangcaagga	ctggattctg	240
naaatgcaat	acaca					255

<210> 684

<211> 922

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(922)

<223> n = A,T,C or G

<400> 684

acccttcatt	tcatgtgctt	ctattttctt	acatctttta	catgactaag	ggattaatga	60
aatcacctct	tcataatcat	gaccataatt	tcataccaaca	agtactcaag	tttggtgtta	120
gcactttatt	aatgcttacg	aattctctct	ctctccctct	ttctcttttc	cttagtcctt	180
gcacaataag	gattttttgaa	tgtataatat	catcttaggt	aagctttcat	atggtttttg	240
catatgaagc	ttatgactgt	cataagccat	accaagcctg	tggagtatgg	catgattttc	300
attacataat	ccaatgaaaa	tagacttatt	ttaaatccct	aactttgtag	ttttaatttg	360
tatttcacta	tcttgaaatt	aacagctagt	acttatccat	cacagcagtc	tcctactgac	420
atgaagcaag	ttgttgaatg	cagtaganca	tgaatgaaag	catttaaatgt	tanacaaaaa	480
tgggtgatac	ccaagcattc	tgaattattt	gcatcaagga	atgggacatg	tacattagtg	540
gcatcatttc	taccaatatg	tgacttgaat	tgttttttta	aaaaaaggan	aatgantttc	600
tcaatttgct	ttaaaaaatt	ttnaaaaagt	tcaatggcat	gctgctttgt	ctggacttaa	660
tttattaaca	attnttaanc	cttccttaag	gacanaattt	tgggtgttcag	gatcnccttg	720
aagggtctta	tttttnatan	nattccaaac	ccaaaagggtg	gtttaaaatg	ggnggggttc	780
ccccncnaaa	atttgaccg	gcttttttat	atttaaaaaa	nttnccnttt	gngtttgaaa	840
nctnaatacc	aattaagggg	gaattttacc	tnccagtggg	aaaaaaaaaac	nctngccntt	900
naaaaaattc	ccnggagnca	at				922

<210> 685

<211> 531

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(531)

<223> n = A,T,C or G

<400> 685

tgaggctctg	taaaactggt	cctctgctag	gcatacttca	tattctctat	attaaactca	60
tctttaattg	gcatggaaga	ttcattgttc	caaactctcag	atgaagatcc	tatattggat	120
gcaattaagc	ctggcagcgc	cctcaaaaaga	cagtcttgct	actgctagcc	acagccagga	180
cacagtaaca	gttccttcta	gtgaccnag	accataanaa	atananatct	aaagaattct	240
gactccaaag	gcattagccc	attcctggta	ttgccaatta	tgatagaaaa	aattgccaag	300

```

ctcctggggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360
agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420
attacacatg tttactacaa gagatgttna taagtaaaga aggcctgata tacaatctaa 480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

```

```

<210> 686
<211> 336
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

```

```

<400> 686
ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60
tcaagaacac tacaagctat gtctctttct canagagccc tgaantttta acatattgaa 120
agctctnadc ttgccaaana actccactta acttcaaaac acaccctcca cacacatcat 180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaatt catgcaanac 300
ctagggctta tttgagagca ttttccagtg cagatt 336

```

```

<210> 687
<211> 271
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

```

```

<400> 687
aatctgcact ggaaaatgct ctaaaaataag ccotaggtct tgcattgaatt gggttttcag 60
tttctttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc 120
atntagatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180
tgaagttnag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc 240
tctctgagaa gaggacatag cttgtagtgt t 271

```

```

<210> 688
<211> 740
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

```

```

<400> 688
tgatgaagcg cgcgtnttac nactcactat nggggcgaan tatgggtacc gggnccccct 60
cgaagcggcc gccctttttt tntttttttg tgagagttaa aataaaatat ttgagtttaa 120
tttaaagttt gagttaaatt aaaatatatg gcatatccca agttgggctt tgcanaaaga 180

```

```

acactttctca ggaactgtta gttggtgtac caggaactca gaagggtcct gttattaaat 240
atattttggaa aatgcatgga ttctctgaan atcnctctgc atgtgagcaa cacttacatc 300
ncaaaccaaa attggcattg catacatnaa ccaatatttc ccaaacattt ctgggttatgg 360
ccccccctt ttgtgtanta cttattgctg ttttttggaa ccctggggaa attacttaaa 420
atattcagct ggaaattaca ggcgttactt ttaaggganc aagaattaca gtgactccca 480
aaattgcaag tgttgattac tatttaagaa cccaagaatt tgaaagaaat tttgaaaagt 540
gaaaacngga aatnttaaat gacttctcaa attttgaaaa ctcnngnaaa catctccact 600
ttggtncctt tcttttaaaa attggctaaa aattntttnt tatncccacc ccattggaan 660
tncccccccc ctggaacaat tggattcccc tatttcctaa aaaacggccn cccccccggg 720
ggngaacncc nacnttttgn 740

```

<210> 689

<211> 635

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(635)

<223> n = A,T,C or G

<400> 689

```

actagtccag tgtggtggaa ttccattgtg ttgggattac atatactttt agcaattttt 60
aaagaagtgt acaaagtgtg gatgtttcct gagctctcat atatctgana atgtcatttt 120
acatctccgt cttcacctct caaaacttct ttcaattctt tggctcttaa tagtaatcaa 180
cacttgcact ctggagtcac tgtaattctt gctcctttac agctacncct gttatttcca 240
gctgaatatt tttagtattt tcccaggggt ccaaaaaaca gcaataagta ctacacaaag 300
gggggtgggc ataaccagaa atgtttggga aatactggct catgtatgca atgccaaatc 360
tggtttgcn tttantgtt gtcacatgc agagtgaatc ttcaaanaat ccatgcattt 420
tccaaatata ttttaataca gggaaccttc tganttctct gntacaccaa ctaacagttc 480
ctgaaaaatg ttctttctgc aaaacccaac ttggggatat gccatatatt ttaattaaac 540
tcaaacttta aattaaactn caattatttt attttaact cctcaaaaaa aaaaaaaaaa 600
aggggggggc cttccaangg ggggnccggt tcccc 635

```

<210> 690

<211> 3923

<212> DNA

<213> Homo sapien

<400> 690

```

acagaagaaa tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agatttgtgt 60
ggctgcagcc gagggagacc aggaagatct gcatggtggg aaggacctga tgatacagag 120
gaattacaac acatatactt agtgtttcaa tgaacaccaa gataaataag tgaagagcta 180
gtccgctgtg agtctcctca gtgacacagg gctggatcac catcgacggc actttctgag 240
tactcagtgc agcaaagaaa gactacagac atctcaatgg caggggtgag aaataagaaa 300
ggctgctgac tttaccatct gaggccacac atctgctgaa atggagataa ttaacatcac 360
tagaaacagc aagatgacaa tataatgtct aagtagtgac atgtttttgc acatttccag 420
cccctttaaa tatccacaca cacaggaagc acaaaaggaa gcacagagat ccctgggaga 480
aatgcccggc cgccatcttg ggtcatcgat gagcctcgcc ctgtgcctgg tcccgcttgt 540
gaggggaagga cattagaaaa tgaattgatg tgttccttaa aggatgggca ggaaaacaga 600
tctgttgtg gatatttatt tgaacgggat tacagatttg aaatgaagtc acaagtgag 660
cattaccaat gagaggaaaa cagacgagaa aatcttgatg gcttcacaag acatgcaaca 720
aacaaaatgg aatactgtga tgacatgagg cagccaagct ggggaggaga taaccacggg 780
gcagagggtc aggattctgg ccctgctgcc taaactgtgc gttcataacc aaatcatttc 840

```

atattttctaa	ccctcaaaac	aaagctgttg	taatatctga	tctctacggt	tccttctggg	900
cccaacatto	tccatatatc	cagccacact	catttttaat	athtagttcc	cagatctgta	960
ctgtgacctt	tctacactgt	agaataacat	tactcatttt	gttcaaagac	ccttcgtgtt	1020
gctgccta	atgtagctga	ctgtttttcc	taaggagtgt	tctggcccag	gggatctgtg	1080
aacaggctgg	gaagcatctc	aagatctttc	cagggttata	cttactagca	cacagcatga	1140
tcattacgga	gtgaattatc	taatcaacat	catcctcagt	gtctttgccc	atactgaaat	1200
tcatttccca	cttttgtgcc	cattctcaag	acctcaaaat	gtcattccat	taatatcaca	1260
ggattaactt	ttttttttaa	cctggaagaa	ttcaatgtta	catgcagcta	tgggaattta	1320
attacatatt	ttgtttttcca	gtgcaaagat	gactaagtcc	tttatccctc	ccctttgttt	1380
gatttttttt	ccagtataaa	gttaaaatgc	ttagccttgt	actgaggctg	tatacagcac	1440
agcctctccc	catccctcca	gccttatctg	tcaccacat	caacccctcc	cataccacct	1500
aaacaaaatc	taacttgtaa	ttccttgaac	atgtcaggac	atacattatt	ccttctgcct	1560
gagaagctct	tccttgtctc	ttaaatctag	aatgatgtaa	agttttgaat	aagttgacta	1620
tcttacttca	tgcaaagaag	ggacacatat	gagattcatc	atcacatgag	acagcaaata	1680
ctaaaagtgt	aatttgatta	taagagttta	gataaatata	tgaaatgcaa	gagccacaga	1740
gggaatgttt	atggggcaag	tttgtaagcc	tgggatgtga	agcaaaggca	gggaacctca	1800
tagtatctta	tataatatac	ttcatttctc	tatctctatc	acaatatcca	acaagctttt	1860
cacagaattc	atgcagtgca	aatccccaaa	ggtaaccttt	atccatttca	tgggtgagtgc	1920
gctttagaat	tttggcaaat	catactggtc	acttatctca	actttgagat	gtgtttgtcc	1980
ttgtagttaa	ttgaaagaaa	tagggcactc	ttgtgagcca	ctttagggtt	cactcctggc	2040
aataaagaat	ttacaaagag	ctactcagga	ccagttgtta	agagctctgt	gtgtgtgtgt	2100
gtgtgtgtgt	gagtgtacat	gccaaagtgt	gcctctctct	cttgacctat	tatttcagac	2160
ttaaaacaag	catgttttca	aatggcacta	tgagctgcc	atgatgtatc	accaccatat	2220
ctcattattc	tccagtaaat	gtgataataa	tgtcatctgt	taacataaaa	aaagtttgac	2280
ttcacaaaag	cagctggaaa	tggacaacca	caatatgcat	aaatctaact	cctaccatca	2340
gctacacact	gcttgacata	tattgttaga	agcacctcgc	atgtgtgggt	tctcttaagc	2400
aaaataacttg	cattaggtct	cagctggggc	tgtgcatcag	gcggtttgag	aaatattcaa	2460
ttctcagcag	aagccagaat	ttgaattccc	tcacttttta	ggaatcattt	accaggtttg	2520
gagaggattc	agacagctca	ggtgctttca	ctaattgtctc	tgaacttctg	tccctctttg	2580
tgttcatgga	tagtccaata	aataatgtta	tctttgaact	gatgctcata	ggagagaata	2640
taagaactct	gagtgatatc	aacattaggg	attcaaagaa	atattagatt	taagctcaca	2700
ctggtcacaaa	ggaaccaaga	tacaaagaac	tctgagctgt	catcgtcccc	atctctgtga	2760
gccacaacca	acagcaggac	ccaacgcgat	tctgagatcc	ttaaatcaag	gaaaccagtg	2820
tcatgagttg	aattctccta	ttatggatgc	tagcttctgg	ccatctctgg	ctctcctctt	2880
gacacatatt	agcttctagc	ctttgcttcc	acgaactttta	tcttttctcc	aacacatcgc	2940
ttaccaatcc	tctctctgct	ctgttgcttt	ggacttcccc	acaagaattt	caacgactct	3000
caagtctttt	cttccatccc	caccactaac	ctgaatgcct	agacccttat	ttttattaat	3060
ttccaataga	tgtgcctat	gggtatatt	gcttttagatg	aacattagat	atttaaagct	3120
caagaggttc	aaaatccaac	tcattatctt	ctctttcttt	cacctccctg	ctcctctccc	3180
tatattactg	attgcactga	acagcatggg	ccccaatgta	gccatgcaaa	tgagaaaccc	3240
agtggctcct	tgtggtacat	gcattgcaaga	ctgctgaagc	cagaaggatg	actgattacg	3300
cctcatgggt	ggaggggacc	actcctgggc	cttctgtgatt	gtcaggagca	agacctgaga	3360
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aaagtggctt	tatttctctt	tattattatt	attttctttt	actactatat	tacgtttgtta	3660
ttattttgtt	ctctatagta	tcaatttatt	tgatttagtt	tcaatttatt	tttattgctg	3720
acttttaaaa	taagtgattc	gggggggtggg	agaacagggg	agggagagca	ttaggacaaa	3780
tacctaatgc	atgtgggact	taaaacctag	atgatgggtt	gataggtgca	gcaaaccact	3840
atggcacacg	tatacctgtg	taacaaacct	acacattctg	cacatgtatc	ccagaacgta	3900
aagtaaaatt	taaaaaaaag	tga				3923

<211> 882
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(882)
 <223> n = A,T,C or G

<400> 691
 ttactcacta tagggctcga gcggccgctg aattotgctg cagtgagctg tgattatgtc 60
 cctgcactcc agcctggatg acagaacacg atcattttctc taaagacaaa caaaaaacat 120
 aaaataaaac tagtataagg atagaagccc agggttgatt taagtctgcg gaaatcataa 180
 accataggtc agactttctca ttgatgaggt acttgtgggt tagaatacaa ttaggtatat 240
 ttggtctaga aaccaggatg gaattagaga ataaaagact gagcaatagc atgttatagt 300
 attagaaata ctatagaaat aggaaaagcc ctgattatga ctttggagtt ctgatccaac 360
 atctgggatt atttagatat tttaaaggaa aacgatgact tttagctctc aggatgtag 420
 tttctcaac cataaaatga agagcctcga aaagatttctg tttaccagat tattttctgaa 480
 gtcaattcca gtttataaaat tccatcactg ngcactaagg caaattgaat tgaataaagt 540
 attgggnatg cataaaatac tctattttta aaaangaata gtaattatcc attgnaaca 600
 gacgcantca tccagncatc tcctaccctg ncccatgncn tatgtagana tgtantctca 660
 atcccttaac aaaccgattt tgcaaaggag cttanccttg gggtagcttg tcanggaac 720
 tgggtcactt tnaagactca tcttactta ctgggcacca aatncctacc attgcatcaa 780
 actgggggtc ccatncaagg caaacctgn gaaatcttta atcccgaat tggcgcccaa 840
 ttttnggggg tttccnaaaa gaatcntccc ccccgagggg cc 882

<210> 692
 <211> 235
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(235)
 <223> n = A,T,C or G

<400> 692
 ccgcactngt aangnccgcc agnngctgn aantccgctn agcncggatc cactagtcca 60
 ttgatggtaa aagggtagct tactggnatg tccgctgct ccanganata atacncagga 120
 cttctcanag cacttaatat gttaatataa aactncgnga aaaaagatnt tcnatgaanc 180
 nttcctctta ggaggtcagg ngagaatagt gttaatgnca ttaagganag aacga 235

<210> 693
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 693
 nttatgtaag aaatgtcata tatcttttat tttcttttaa tcaaaataaa tatgactttg 60

```

agcatcccat cccatgcccc atcctatcag aatggtagga acatcaacac aaataattag 120
taatgcaccg catctacatt cccatgctct ctttacttct tcagcattgc ctaaaggcat 180
aatacacott taattaatta attcagcctc ctaatgcaca ttaacaaagc ccctgctaga 240
ctctgtccat aatggnaaac ctgnatgatc cttgatatta acantttaag gaatgctcat 300
ggattggtnn cagacttaaa aaattgaggg ggctgaanaa aatctaangg anaaatcatg 360
gaagcatttg cacatattac ata 383

```

```

<210> 694
<211> 204
<212> DNA
<213> Homo sapien

```

```

<400> 694
tctcttggct ggtcagcctg aagggtggta atgactcacc aacgctacta atccttcttc 60
actgtccctt atttttttcc ctcccaggct cataactcga ggttaaactc tctttttatac 120
aagaaccctg tctgatgaag catcatttca gaattttaag tcaacttaca aatgtggtat 180
tattcacatc tgagtacaaa tttta 204

```

```

<210> 695
<211> 670
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(670)
<223> n = A,T,C or G

```

```

<400> 695
gcaccagccc aggtgctgtt tcttcacttg agctccatga ccctccctgt gtggtggggt 60
gaacgggtgac ctccaaaaga tatgtccacc tggaaacctca gaataagatc ttatttggaa 120
tagtctttgt agatgtcagt aaggtaaaga tttggagatg agaccctcct ggattaggggt 180
aggccctagg tccactggca ggtgtgcttc tcagggtctg aaaggggaag acagggccac 240
ccagaggagg agacggaggc agagacaggg ccaccagag gagagacgg aggcagagac 300
agggccaccc agaggaggag acggaggcag agacaggggc caccanagg aggagacgga 360
ggcagagaca gggccacca gaggaggaga cggaggcaga gacagggcca ccaaaggag 420
gagacggagg cagaanacag gcccccccaa agaaganacc ggaggcanaa aacagggcca 480
cccanaggag gagacggagg canaaacagg gccaccccaa aggaggagac ggaggcaaaa 540
cagggccacc caaaaggagg aagccggaag gaaaaaacag ggcccccca aaggagggaag 600
ncggagggcn aaaaanaggg ccccccccaa agngagaaaa ccnggnaggc nanaaaacn 660
ggggcccnn 670

```

```

<210> 696
<211> 317
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A,T,C or G

```

```

<400> 696
tgacccgtnn tttctgcaaa ggagagtggg gaaggagggn tgggaagaca aaagttacat 60

```

```

gttagcaggg aagagaacag aattttatcc acccttatct ctttagtgag tgaacaaaca 120
gccactgtc atcgtggata catttcactt ttttcacatg actaaggagc tctccggagt 180
gaagagtgag taaatatgtt tattacgcat tcatttgcta agaatcatca agaaccctaaa 240
gttagagacg tttcgtgggt gaactttctc cctactgtct agtagaatta tatggggatt 300
ctggatctgc tgggtgcc 317

```

```

<210> 697
<211> 246
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(246)
<223> n = A,T,C or G

```

```

<400> 697
ctncagctct aatcgactnc tatnaggnat gatggcncgt gcngcgcgta cgtantgctt 60
ggatcctcnn anagcggacg cctactacta ctaaattcgc ggcgcggtg actttttttg 120
tttttttctc tnacagagnt ntttttgtgc ccttggttct tatgctcana ctngcctaaa 180
aanatcaaaa gntacnnatg aaaaacntat nccatctnca naaaggaggt gnagntatta 240
ctttct 246

```

```

<210> 698
<211> 3674
<212> DNA
<213> Homo sapien

```

```

<400> 698
agaaagtttc cttttttttt tttaatggtg aaaagatata cacatattta gaattagcca 60
gctgggctca gtttagatta ttccaatttt gttggcaaca tccagagcat cgtaatcagg 120
agccagtga aacatattcct tcttctctcc atcaggccaa atcacgggtg tgaccttggc 180
cacatcaatg tcttagaact tcttcacagc ctgtttgato tgggtgcttg tggctttaac 240
atccacaatg aacacaagtg tgttgttgtc ttctatcttc ttcgtggtga ctcagtggtc 300
agcggaaact tgatgatagc gtagtgggtc agcttgatc tccctgggagc gctcttccaa 360
agatatttgg gctgcctcgg gagttgcagc gtcttgggoc gccggaagg gggtgacgta 420
cggatcttct ttttttgtgt ggctgtggac accttcaac actgtcttct tggcctttaa 480
atccttcgct ttggtttcgg ctataggagg ggcaggagct tccttcttca ctttcggcgc 540
catcttgtga aaagggaag tttccttct aataccattt tcaacttctcc cgaattttgt 600
ggatcgtttc ttggtatcta cccagattt caggagtgtt ggctggatct tagggattgt 660
gaagtcttca tttccctgtg gtgagatctg aggcattgatt ttaaacagtg tgagggaagg 720
agatctocag gcactttaat agaattgaga agcaggatgg gatttgagag gaaatctgat 780
tttgaaaaaa ggagaactag agttgagttc gtaattaaact agcaccttaa aggtcattca 840
gcatgcccat ctgcacagtg ggtgtaatca ccctacagaa caaaaaaaa aaggcaatgg 900
agaggaagct gtaaaagcact gtacatgttt aactcattgt tatgtaagct agccgaaggc 960
ttcacagact tgaattcctc tcccaagttc tcttccgtga ctggaaactc tgccttaggt 1020
tgcttaaaac ttgagaaaac gaattattgt tccctgcct gccttcttga gtacacttgc 1080
ctacacaaag atgcacatcc ttgtttgtgt gtgtgtgtcc atttgcgtg acattcttgt 1140
gaaagtcaaa gtttcccgagc tgttgacata cacaagttt tttggtgcaa cctgtcagat 1200
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<211> 2051

<212> DNA

<213> Homo sapien

<220>

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<222> (1)...(2051)

<223> n = A,T,C or G

<400> 699

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<212> DNA

<213> Homo sapien

<220>

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<223> n = A,T,C or G

<400> 700

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<212> DNA
<213> Homo sapiens
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<400> 702

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<211> 2904

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens
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<213> Homo sapiens

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<210> 706

<211> 123

<212> PRT

<213> Homo sapiens

<400> 706

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Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
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Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
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Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
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Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
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Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
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<210> 707

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<213> Homo sapiens

<400> 707

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Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
35 40 45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro
50 55 60

Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr
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Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly
85 90 95

Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg
100 105 110

Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly
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Pro Ala Gln Ser Leu Ala His Arg Arg His Trp Arg Asn Ala Pro Asn
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Leu Trp Leu Ala Leu Leu
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<210> 708

<211> 371

<212> PRT

<213> Homo sapiens

<400> 708

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35 40 45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
50 55 60

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
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<211> 196
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(196)  
<223> n=A,T,C or G
```

```

<400> 710
cnatccttctn cntacaccca tgangtccat gtcgcacgtc cacctcccct caaaacttgg 60
gtccncatcc acccgctact ctcccctntaa nc nataaccc cttttngcga atagacccca 120
ccttancaat nggtttttcn ttttttgctc ctnggnccgn gcgattcaan aaattgaagg 180
cccaaaaaa cccccc

```

```
<210> 711
<211> 177
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(177)
<223> n=A,T,C or G
```

```
<400> 711
ntacntcnc t ccnaatgaaa ttcgaanctc ggttaccgcg gggnatctcg attaggngcg 60
tantctcgga tgtgcagtca caagtctttt gctaattctt ataattntcn ctaccctttc 120
ttcnacaata ctgctatcct antntttctn tcnctctct cccannttac taaccac 177
```

<210>	712
<211>	185
<212>	DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(185)

<223> n=A,T,C or G

<400> 712

```
aaacgnacca nngccaacga tangtggttg ngttgggtgc ggttggtcct cttatntgca 60
ctggttgtcc gtgtgcacag ganggccacg tccctctgnc ntgagtanca catagcatcc 120
acgttttagtc gactntnccg ggcggccgct ctaccntnt atngattctt attaaaantc 180
ggatc                                           185
```

<210> 713

<211> 172

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(172)

<223> n=A,T,C or G

<400> 713

```
nntggtcgcc tgngcgtnta ctctaaagga tntactatnc atatggantc naanacgact 60
cactacacgg cncctnccg agccnnggtc agtgcctnct nggagacctt ctctggggca 120
ggangagcac tnggtatgtt cacgtatcnc ttcntaaana tacnccctc cg           172
```

<210> 714

<211> 112

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(714)

<223> n=A,T,C or G

<400> 714

```
nttgcgtgcc tggacgtnta ctctgcanga tctactactc atgngaattc taantacgga 60
ctcactatnc ggcanccgag gcgcagcagg gaanggggtca cctcccagtc tc           112
```

<210> 715

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(326)

<223> n=A,T,C or G

<400> 715

```
tactctanag gatctncgng tcatntggat tctatntcga ctcactctag ggctcnagcn 60
```

```

gtcngccggg caagttattc ggatcgtcgg gntccgagct tcgcaattaa ntgtgccatc 120
gttctncaac gttcctgact nggaancccc ngcngttcng atccnnggt acctagctcc 180
anntcccccg tntccttctt ggngtntcat naangaggac cncctcgat cnccttcct 240
taatctgenc acnctgaacg nccaatggac atngtgcgtt taatntanna ggcccgnntc 300
gngtgccctt cccgtnannt cagctc 326

```

```

<210> 716
<211> 122
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(122)
<223> n=A,T,C or G

```

```

<400> 716
nntgcgtcgc ctgngcgtnt actctagatg atctgantag tcatatggat tctaatacga 60
ctcannatag ggctctagcg nggatncnga ttcgctntcc ngattcantg acnccggtan 120
ca 122

```

```

<210> 717
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(203)
<223> n=A,T,C or G

```

```

<400> 717
cntgcatgcc tgcaggtcga ctctagagga tctactagtc atatggatcg agcggccgcc 60
cgggcagggtg tnaatgataa anatgcatca tactanccta cagaanggag agataatgtt 120
ngntggacca ngttggtttt cttgcgtgtg tgtggcagta gtaagttatt agtttttana 180
atcantaccg ccctccgcac cac 203

```

```

<210> 718
<211> 168
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(168)
<223> n=A,T,C or G

```

```

<400> 718
ggcagganga tcncttgagc ccngaggtc gaggetacag tgagccanga gtgcactact 60
gtnnccgcoct ccgcatncac gngtggtccg atccccgggt accganctng anttcactgg 120
antttttttt aancgtnttg antggtacna ccctcgantc cctggctg 168

```

```

<210> 719
<211> 210

```


<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(210)
<223> n=A,T,C or G

<400> 719
cancgtcgnc ataacacgta ttttntgatn aagattctna ctgacccatn aantctacnt 60
ctcaagctct tncanngtcc agtnaangga atgtgtatnn gtngggatnc cacanaaaaa 120
aganatntcg gncgcttcat tantcatcct tcttaccan ntctctngat nncagtntg 180
ancntgaacg cacactacng gatntctcca 210

<210> 720
<211> 131
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(131)
<223> n=A,T,C or G

<400> 720
tccatcctaa tacgactcac tatagggctg ccaacctgcc atccactact gaggaagacc 60
cganactta ggggctcact gcgagccacc ggccacaggt cgtatagggc aaagcacng 120
gaagcaccct t 131

<210> 721
<211> 121
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(121)
<223> n=A,T,C or G

<400> 721
tccatcctaa tacgactcac tatagggccg ntgantnctg gcgaaaggct tacaattaag 60
naggaaaaan ganccaacaa ctaaaaaaaa nncggncgtg ncagcttnga tgactngtcc 120
a 121

<210> 722
<211> 246
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(246)
<223> n=A,T,C or G

```

<400> 722
anctggagtc gcgcgctgca gtcacattgt ggatccanaa aatcggcaca agctctctntg 60
gnttcntcga tatgaanaac actaatccca tgtngntngn gtctccgtga ttcattccctc 120
gcacnggtcc ccntccnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180
agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cncogtnaac 240
atcaag                                         246

```

```

<210> 723
<211> 160
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(160)
<223> n=A,T,C or G

```

```

<400> 723
cctccggaaa atccaantag agtaantncn ctctaattccg gggnaattgg nggggttnnat 60
acgtctctct cccccagnt aggattnana aaaggntctc cagancaaaa nctccaaagt 120
gnatcnanta gccgtncccg ananccaacg cccctacgtc 160

```

```

<210> 724
<211> 156
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(156)
<223> n=A,T,C or G

```

```

<400> 724
tnanccnata tacaccaaat tctgattcta aantcccacc caagggaaaa aagttgagaa 60
gagcctttcc acttttctac taataaaaaa atgcaccagc cctaccann agtgnggaaa 120
acctccttag gcccttgnnt ggaacaancg aaaatc 156

```

```

<210> 725
<211> 347
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(347)
<223> n=A,T,C or G

```

```

<400> 725
aganggttnt atncatgctg tactcgcgcg cctgcagtcg aactagtgg atccaaagaa 60
ttcggcacga gagacggtgc gcatgggacc gagggcccca gccgngagg cgcgcgcgcc 120
gagcccgcgg ncagacgccc catcagtagc gtccgcaccg ggnagccgcg gntctcgccc 180
gagccgtggg cgcgcgccgag gggcgggctc gcctcccgcc gtccctcgca gctctgccgg 240
gcccgagccc gcgcgcgtgc cgcgcgcgnc ttgcgcgtcg gnccgcgcgg nccggnaaac 300
gcggtcgagg tctggatgng gcanngcccg cncctntcgc tgagcct 347

```

<210> 726
 <211> 162
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(162)
 <223> n=A,T,C or G

<400> 726
 ttgggtgggt tgggtggggg naaatttncc catttggtg ggtttggggg ggnaaatact 60
 tccgccttt tnggtnccca aaganacnaa gggggagtcc cttnatagag gnagngcgat 120
 ncntcncaac nacntngact ttgnccatgg ggagnaaggt gg 162

<210> 727
 <211> 120
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(120)
 <223> n=A,T,C or G

<400> 727
 gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttgtcca aagnacaggg 60
 ggggtcnctt anagngnagg gggttcctcc ccaccacttg ncttgnccat tngagnaag 120

<210> 728
 <211> 130
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(130)
 <223> n=A,T,C or G

<400> 728
 gacccactgc agcgttnaac ttagcttggg ccgagctcgg atccctagtc cgtgtggtgg 60
 aattccatgt gtcgagagag gggcaaatac nctccaanac ancncctca tgctcnacac 120
 atattcgcat 130

<210> 729
 <211> 182
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(182)
 <223> n=A,T,C or G

```

<400> 729
cngactgctn gcgtttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
gctggctgct tccagtcgat tanatttggtg aaaaagctga accncngccn gttaaggggg 120
annatgcaaa anatncatcc nnctgccccn taaactgntc tntccnaggg aaaaaangga 180
ag                                              182

```

```

<210> 730
<211> 678
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n=A,T,C or G

```

```

<400> 730
cactcncact ccggacctag genottcacc actgctctct tcctcctcct cctcctcntc 60
ctcggggctg ggggaccttc cccagtgacc atctcacttt ggctgaancc cactcggggc 120
agcctgagtt tggggctott ggcccttctca cctcctcctg cccctcctt ggcccgacc 180
aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctccctc cccctctgcc 240
acctggtact cggcatggtt gcccccgga tggcgagagc tccacgtcgg gcagtgagaa 300
gcagaaagta cgctcggccc ctgggggctg ctctcagca cctcgcgcc ccaccctagc 360
tctggccccc agtgtgggca acttcagcct cagcccaccc tcgcctgtgg ccgcctcgcc 420
cgcctgtgcc tctcggctta gccccacgtc caactcaagc tggggcactg tcacggtggg 480
catcttaaag acaccctcac ccaccagcag ctcaccacct gcaacctggg ctccaggcaa 540
aaaaagggtc acctggggca nctgaacct gtacctgctg tgccctctgc tgaanggaat 600
gttatctgaa cctgctgccc tgggggtact gccttcccaa aaccgggtca antccacctg 660
ttggaaggna aatncccc                                     678

```

```

<210> 731
<211> 135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(135)
<223> n=A,T,C or G

```

```

<400> 731
gagatccgac gtcaccccct tccggcgggc caagacgctg caactcccga ggcngcccaa 60
atatcttttg aagagcgctc ccagcccaac acaatggaat tccaccacac tggnnatgtg 120
gatccgagct aagcc                                         135

```

```

<210> 732
<211> 660
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(660)

```

<223> n=A,T,C or G

<400> 732

```
gcttggtacc gagctnggat ccctagtaac ggccgccagt gtgctggaat tcggctttct 60
tcaatcagnt nacgagctgc atggtctgct aacattgtca taattgctgg catagattac 120
tgaaaataaa gaaaaaaaaat tgaagctgcc tatcaagttt tggattatc aaaaacttcc 180
tacaagttat tttacttcaa ccatgttatt acaaatattt taatgaatac tttagagact 240
ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
ttgataatta cataaattat tatggtccat tcaacttttc tagtgtttag tttatacacc 360
aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420
tccactatta ggattttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaaac 480
tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtagggg 540
cttctgaata actcagnaag gctcacttcc attatcttac tttataaaaa aatgctataa 600
gacagaatgg gccgacgtgg nggctccacc tgtatccacc tttggaggcg agnggcgaat 660
```

<210> 733

<211> 836

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(836)

<223> n=A,T,C or G

<400> 733

```
aattaatgac tttttttccg ccctgccaa gctagtttgc taaatataat gtaaagaaat 60
tagctactca ttttctggtc cacgaagggt cctaaaaatgg gaagaagtgg agatctgacc 120
ttgttagttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
tcctctataa ttgtatacaa aatcgtgagt ttttaaaaac tgggttagag ctattggttc 240
ctcagagttc caggcatctt agaccccaa aaagggttaag gactactgac ttaaccaatt 300
agggttaggt ggcattggct ttgaagaaaa gcagaggaaa gatataatctt ataattctgg 360
gcaacaaaaa agtggatgtg tgccagcatc ttagagtaga atcctcttaa aaggatagca 420
ctgcatatga actagtaggt ttaaccagt gcataattag gcgaagtagc tcatttttct 480
gttagaattc ttttttatat gggaatgggc aagcttttac agcttttacc ttgccaatga 540
atacctggaa tttaaaaaat cttgttaggc atattgcca taaagttttt tttcctagat 600
catatattca gtaaataatgt ttgtagcttt atttcaatcc cccaattcat tgagggttga 660
aacaatttga atgggttgag tgtagaagct aagttatttc tgtagaggct aagggcattt 720
ataccaanat atgttagact tgnngntcct gtttaaccatg ctgtanacaa taggaattac 780
tgtatatoca cattttaatt ttaacatctt ctgctttgnt gntgggttga gangga 836
```

<210> 734

<211> 694

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(694)

<223> n=A,T,C or G

<400> 734

```
nagtnctatt tncactaaac tgnagtgcc ttggatggct ttcaggatgt octgaatcct 60
ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
```

```

gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattaggt 180
ttgagtggca ttggctttga agaaaagcag aggaaagata tatTTTataa ttctgggcaa 240
caaaaaagtg gatgtgtgcc agcatcttag agtagaatcc tcttaaaagg atagactgc 300
atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat ttttctgtta 360
gaattctttt ttatttggga atgggcaagc ttttacagct tttaccttgc caatgaatac 420
ctggaattta aaaaatcttg ttaggcatac tgcccataaa gttttttttc ctagatcata 480
tattcagtaa atatgtttgt agctttatTT caatccccca attcattgag ggTTgaaaca 540
atttgaatgg tttgagtgtg gaagctaagt tatttctgtg gaggctaagg gcatttatac 600
caagatatgt tagacttgTg gttcctgtta accattgctg tagacaatag gaattactgt 660
atatccacat ttttaattttt aacatcattc tgtc 694

```

<210> 735

<211> 126

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(126)

<223> n=A,T,C or G

<400> 735

```

ncnttgaaac nggttgacca gacttcaggc ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctct 126

```

<210> 736

<211> 165

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(165)

<223> n=A,T,C or G

<400> 736

```

cagaagcctt taaaccggtt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
tcgtgccgaa ttccggcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

```

<210> 737

<211> 125

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(125)

<223> n=A,T,C or G

<400> 737

```

ggnagccctt ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60

```

```

cgtgccgaat tgggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
tctct                                           125

```

```

<210> 738
<211> 137
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(137)
<223> n=A,T,C or G

```

```

<400> 738
ggagncnctt gancaggatg accgacttca ggccgtgtcg ctcaatcgtg gagaatctcg 60
tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
tctctctctc tctctct                                           137

```

```

<210> 739
<211> 970
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(970)
<223> n=A,T,C or G

```

```

<400> 739
aggcctattt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggtc 60
cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120
atcaatcagt gaacttttta gctactcaa agctttgtct caatgcatag gatttatgat 180
tgtggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcatgaga 240
catttttcct aactgagcat agccatgaac ctctcacgtc tgttcctctg tgtcagtttg 300
tancactgaa tacagcagcc ctctctaaaag tccaggcagt gcacaggctc tgacatgatg 360
aagtgacgtg ttgctatggg gatctttgcag ctggccaaat agtcactggg tgattttacc 420
cagcaggaga tttttgcaaa aatttcctgg gtgagagtga aatcaaactc ctattttgnt 480
tctcctctgc aagctgnagt taagatggat taatgagtac ttttagatta attaactctg 540
aagagaaaat gggagaaaag tgaggaagggt tgttggcaga agtcattgct ggaatccttc 600
tgaaggaggat actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720
tacgcatatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780
aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840
aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat nttaaacca 900
aaantgaaga agggaaaaat ntttcccont nttttntttt ttgccccct tgggattggn 960
ttttntttcc                                           970

```

```

<210> 740
<211> 739
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<223> n=A, T, C or G

gntgtcnaaa	aagcaggctg	gtaccgggtcc	ggaatttcgcg	gccgcgtcga	cggcccttgg	60
tgccactagt	tctttcattc	ttcccncca	tcaatcagtg	aacttttttag	cctactcaa	120
gctttgctcc	aatgcatagg	atztatgatt	gtggggattt	ccagataata	taaatattca	180
acatgaatat	tttaaattaa	ggcatgagac	atttttccta	actgagcata	gccatgaacc	240
tctcacgtct	gttcctctgt	gncagtttgt	agcactgaat	acagcagccc	tcctaaaagt	300
ccaggcagtg	cacaggctct	gacatgatga	agtgcctgt	tgctatggtg	attttgcagc	360
tggccaaata	gtcactgggt	gattttaccc	agcaggagat	ttttgcaaaa	atttcctggg	420
tgagagtgaa	atcaaactcc	tattttgttt	ctcctctgca	agctgnagtt	aanatggatt	480
aatgagtact	tttagattaa	ttaactctga	agagaaaatg	ggagaaaagn	gaggaagggt	540
gttggcagaa	gtcattgctg	gaatccttct	gaaggagata	ctgacttcac	ttgcaaagac	600
aagagactan	aagacaataga	agttaaactt	ggcctgtctn	tcatatgata	gatgcttgag	660
agtcacagnt	cagggaatt	ttaattctgn	catacgcata	ttggattatg	tgggtcatgg	720
ctttgttttg	cncttaacc					739

<211> 1171

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (11\bar{7}1)$

<223> n=A, T, C or G

<400> 741

gccttgnggt	gacactatag	aacatgtttg	tacaaaaaag	caggctggta	ccggctcgga	60
attcgcggcc	gcgtcgacgg	cccttnntgc	cactagttct	ttcattcttc	ccccccatca	120
atcagtgaac	tttttagcct	actcaaagct	ttgtctcaat	gcataggatt	tatgattgtg	180
gggatttcca	gataatataa	atattcaaca	tgaatatatt	aaattaaggc	atgagacatt	240
ttcctaact	gagcatagcc	atgaacctct	cacgtctgtt	cctctgtgtc	agtttgtagc	300
actgaataca	gcagccctcc	taaaagtcca	ggcagtgcac	aggtcttgac	atgatgaagt	360
gacgtgttgc	tatggtgatt	ttgcagctgg	ccaaatagtc	actggttgat	tttaccagcc	420
aggagatttt	tgcaaaaaatt	tcttggttga	tggtgaaatc	aaactcctat	tttgtttctc	480
ctctgcaagc	tgtatgtaag	aaggagattaa	gaggagtact	tttaagaatt	aaattaaacct	540
cttgaaagaa	gaaaaaatgg	gggaagaaaa	aaagtggaag	ggaaaagggn	ttggttttgg	600
gcnaaaaaaa	aagttccaan	tttnggcntt	ggggaaaaat	tccccntttt	ccttggnaaa	660
aggggggnaa	ggttaancct	tgggaacctt	tttccnnctt	tttnggccca	aaagggggaa	720
ccanggggaa	agaaccttta	ggnaaaggaa	acccatttgg	gaanggggtt	naaaacctnt	780
ngggcccccg	ggccctcctc	caanaaggga	aaaaaaaagg	cctggaaaan	gtaccagggg	840
ttcangggna	aaanttaaaa	ttcttggccca	atancnccat	aattgggaat	tatggggggg	900
ccatgggctt	ttggtttggg	cncttaaccc	cgenttttta	attcaaanna	aaaaaaagng	960
gtttggaaaa	nnaaanaaaa	aaaattnaan	ggncccnaaa	aaaaaacctg	gaaaaccttt	1020
ggaaaaaaat	tngnnngggg	gcctnttggg	tggggggggt	tnaaaaaaccc	ccctnngggg	1080
ttttttaagc	ccaaaagggg	gggaggggna	aaanggtnc	cttntttttt	ttttnngcc	1140
cccttgggga	atqgnnttat	tcangggccc	c			1171

<210> 742

<211> 739

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(739)

<223> n=A,T,C or G

<400> 742

```

gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccnccca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtgggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcagtgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgacgc 360
tgccaaata gtcactggtt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaaactcc tattttggtt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc                                     739

```

<210> 743

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(610)

<223> n=A,T,C or G

<400> 743

```

ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60
taaatttttg atagacattc ccaaatatta tacctgtttt tgagaccttt aattcctggt 120
gtcaaattgc cctatatatg gagtaataaa cacgatttaa agaaatgagg actaaaaaaaa 180
gattatatat aaccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240
ttatctgtgg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaact 300
ctaggttaga taccgagggt ccacaaattt ttcataagaa atattttttc tctgccctat 360
gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420
atgatgaagg atttgaggtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480
gctctngat cttggacagg tcaattgact tggcttaatc ttctcatcca tttagnngag 540
acagcaccac tattcacagg actattgnen gaattaccag acaatagcat agngngaaaat 600
ataangcctt                                     610

```

<210> 744

<211> 127

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(127)

<223> n=A,T,C or G

```
<210> 745
<211> 458
<212> DNA
<213> Homo sapiens
```

<400>	745						
gatatcccg	gattcgcg	cgcgtcgacg	tggcctctag	tttgtcctgg	tccaaagcag	60	
ggaagctggg	ctacgtcctg	cccaggtcag	ccttaggtta	agggctgcct	gggggaggga	120	
acttcctggg	ccttcgggtc	tctgtgcact	ggggtggctc	ctgtggccca	gaatgccttg	180	
gagaagggtc	ctactggaag	cgaaggtgca	gggcagcagg	gcctgaggcg	caggagctgg	240	
tggaggctcc	cagcacagg	cgcgcggcca	gtcacatcac	tgtgatgg	ggggggactt	300	
gggagtttc	ccccgagaat	gggagggtctc	acagtccccg	tgtgcaatg	ctgtcgggtgc	360	
actgnngcng	caatgtgtctc	atggncactt	gctttttctc	tgtggccccg	gccgatttat	420	
ccagcanngc	acccctcttc	tntctctcgg	anaagcc			458	

```
<220>
<221> misc_feature
<222> (1)...(893)
<223> n=A,T,C or G
```

<210> 747

```
<220>  
<221> misc_feature  
<222> (1)...(738)  
<223> n=A,T,C or G
```

```
<210> 748
<211> 647
<212> DNA
<213> Homo sapiens
```

<400> 748							
ctntgtggcg	gtggctgtct	catttggggtg	gacttttttg	gtcgtaggaa	cctgggtatng	60	
aggtcgagag	taagacgggc	tattagtagt	cgcacgag	ttatttgtga	aaacctggtt	120	
agggcctctg	tctccgctgc	gctcgcctaa	attggtagtg	ctcgacttgg	aaacacggtt	180	
ctaacacgcg	ttgttagcgc	ccttgctagc	atgtgaagga	cactggccct	accaagaaag	240	
attcgagtcg	ctccttcgg	tatcgttcac	ggaggcgata	tttactcttc	ttactacggt	300	
tacttcgaga	ttgtctgtga	agtttaagac	tactaaaaag	agtattaagc	ctatcgggaa	360	
ttagctagat	cgacacgcta	aaaccaaggg	caatcggcgg	aaatatagag	gcaccaataa	420	
tagggcctac	agaagcccg	aggggttagac	tcacgtttaa	taccggccac	gggagaaata	480	
aaaagataaa	gtatacatcg	tttagcggtc	ctcggaagcc	ttcggcttta	atgccaaagga	540	
gtcggaaagca	tcgtcggcga	gttaataaact	ccatcgcgcc	gagactatct	acgacgccct	600	
ccctaaanac	cgtaaattac	tcccggaaaag	agtatttagg	cggctct		647	

```
<220>
<221> misc feature
```

<223> n=A,T,C or G

ctntgtggcg	gtgngtgtct	catttggtg	gacttttttg	gtcgtaggaa	cctggatatgc	60
aggtccgcgg	agcgtgggct	ctcgtcgtgg	atgttggggg	ttggtgtggt	gccggttgtt	120
tttggttctg	ttgagcgtag	tgtgtttgaa	ggtagcgtt	cgtgtcttgc	tttgtggtttg	180
gtgtttaggg	cgggtgggga	ggttgtttgt	tagctgttgt	atgtcatatt	gttggtgttg	240
ctgcctgtg	ctgtttgtcc	ttggttattg	tggttgttac	ccgcctgtg	tggaaagtgtt	300
gtggcagggc	gggaatttaa	gtgggagagt	tgtgggacct	gtggttggtg	ttacgtttgct	360
gcttttgtcg	tgggcggtgg	cggcgcgtct	gataattaga	attggatacg	gagtgtataa	420
tacttctagt	aaatggggac	ctagtgtctt	acttcccgga	atagggatct	atgcgaagtc	480
cttaggatac	tctttgataa	gtttaacgcc	cacgacctta	aaattatata	cgattagacg	540
cataacgact	cctccaggaa	agataaagaa	tctcacatat	agaacgggac	cccatacacg	600
tcgataagga	aacaagaqaa	ctaatttttng	ttaaaaagac	tt		642

<211> 639

<213> Homo sapiens

<221> misc feature

<223> n=A, T, C or G

tttgtggcgg	tgtgtgtctca	tttgggtgga	tttttgggtc	gtaggtaacc	tggtatngag	60
gtatagatgc	cgattggtcc	cgacgagcgt	cacgataaat	tcggtagttt	cgcccttttt	120
agaaggcgct	agtactcgga	acttcacttc	atctcggtag	tttacttttg	cgtatatagc	180
cttctccctc	gaagactagc	cgtcacattc	gttccctag	aatcgtttct	gcccctaaga	240
atccgagagc	gagatcccga	aactagagga	accttagaag	agtcgtattt	ccacaaggac	300
cccacagtc	ttccgggaaa	atccctagga	ccatacggtt	aggattcccc	cggaaccggg	360
agcaaaagctc	atgatttccc	acaccgcgag	agcgccctata	accctatccc	attttcttcg	420
gttatcgagg	atattacgat	caagccgaga	gaaccgctag	aaccgctttc	ttcgctttct	480
cacggaacct	ataagttaga	agagaaactc	aggtcttaag	ggggcgcttc	ggctaacgaa	540
acttctactt	acgaagagag	tatctagaca	ttaagtcata	aaaatccact	acgcacctcg	600
tgtacatata	catcggaagc	ggttcataga	cggtgtccg			639

<211> 637

<212> DNA

<213> Homo sapiens

<221> misc feature

<223> n=A, T, C or G

cttttggtggc	ggnggtgtct	catttggttg	gatttttggg	tcgtaggnaa	cctggatatng	60
aggcagctct	gagccccccc	ccccccccc	ccccccccc	cccccccta	ggnggttggg	120
aanacggtgg	atacctaaat	cgagtngtt	cattaaaagt	agttgattac	nccctaaaat	180
aanaanaggg	cttcgtcggg	anaaatcgg	aagganaagt	ctttntggca	tcataanaat	240

```
<210> 752
<211> 644
<212> DNA
<213> Homo sapiens
```

<400>	752						
tntgtggcgg	tggtgctcat	ttgggtggat	ttttgggtcg	taggaacctg	gtatgaggtc	60	
ttgcgagttg	ttggtgtgtc	ctgtcgttcg	gtggttcctt	tttgagttga	gtttgtcctt	120	
tgaggttggt	agctgctggt	cgtttgtgtt	cgtgtagtgc	tttgggttga	gagggttatg	180	
gtggtgggta	cgggtgattg	tgcgccgtgg	tgcgggggtt	ggggtggtcg	tcggttttgt	240	
ggttcatagt	agtcttctgc	gttcggtggg	gcgggtttgg	gtgagttagt	tcgttcttgg	300	
atgtcccatt	gacccgccat	aatctaagta	agggttagta	gaaacctctc	cccgatagac	360	
acaaccgtcg	tccactaaag	acctcgcttc	tgatttttaa	aaggacccca	aaaacatccc	420	
ttcaacggaa	aaaacggaaa	aaagtcagc	gaattcaaag	aagccacggg	agagaaaaaa	480	
gaactaaagt	tagtcggtca	ttatatgtct	cctcgaggag	ggaacggcgc	gtggcggaag	540	
atgaggcggt	aagaagacgc	acctctatcg	gcggcttang	ccctaaaagg	gcgataacct	600	
acgggatgat	aaaggacccta	qqacgcctcc	ttctcggtac	gtcc		644	

```
<220>
<221> misc_feature
<222> (1)...(635)
<223> n=A,T,C or G
```

<400> 753						
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aatcagctcg	accccccccc	cccccccct	ccgaagcaga	gcccaaccca	aagtccaccg	120
actacccgag	taaactctcg	gagggtagaa	taagaaggag	taggtcctag	ccaatagaag	180
tagttccgag	ccgttaggac	agcggacgga	acattnaaga	aagagcctat	attagggagg	240
aagtaacgtt	cctcttttcg	agctctttaa	ggggtagtc	cagaacaagg	gaagaggacc	300
cgtcggctat	tgcccgctga	tacgggctct	cacgngagc	ctaggttcga	ggatagggcc	360
gctcgtaaaa	ttatacggtt	tccgagaaac	gcttcctag	accgggtcct	aaatcgctcc	420
gagtattngg	agagggatcc	ttcggacct	agggacagag	agaggagaac	cgaggttaca	480
ggagagaaac	gtntcctcnc	tagttttctt	tangtcgaaa	aatttcttac	cgatagggtt	540
cctagggtcg	gngaatttac	ggttcgaaaa	acggtagtnc	ctaanggntg	ntattngggg	600
tagtatcgqg	tcgttttaca	ntcgtccgtc	ttntg			635

```
<220>  
<221> misc_feature  
<222> (1)...(721)  
<223> n=A,T,C or G
```

```
<210> 755
<211> 721
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(721)  
<223> n=A,T,C or G
```

```
<210> 756
<211> 873
<212> DNA
<213> Homo sapiens
```

<220>
 <221> misc_feature
 <222> (1)...(873)
 <223> n=A,T,C or G

<400> 756
 ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60
 ggaaactgtc agcctgtctc tttcactttg ggcaagtga agcaaagacg tccagtccta 120
 tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctgggc tgagtagagg 180
 ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240
 atgccaatga gcactcatta taaccgcgcc tattttatag gatttaattt tacacttcag 300
 gcttaatcag tctgaaagtt aaactgacag tgtaaagtta cggaatcaat gacatttagg 360
 ctttatgact ttgtagctga atatctatgg gctatatttc cattctaaca gtgatatact 420
 gttccagaat ctcatctttt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
 cacacccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
 gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600
 ctgatgccaa cgaanaaccc aaagcgctct cccttccaga tggaagctgc cccacactgg 660
 gctgacagca tctggagctg ctctggctca aatcccgaa tcgcacacct cctanccggg 720
 gcgtttanag atcctcnggg ccagctaccg accacttttg acaagggnct taggagcgat 780
 aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
 atggcncccc caaataantt gggaaaantn ggg 873

<210> 757
 <211> 782
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(782)
 <223> n=A,T,C or G

<400> 757
 ggccccctga gggataactct agagcggccg ccgactagt agctcgtcga cgatatcccg 60
 ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
 atctgtgaag tggagaggcg ctttgggctt cttcgttggc atcagggtgcc catacctagg 180
 gcagctgtgg aagtgtcagc gtccctccctg agaggaactc ctgctccggg ggctccctcag 240
 tccttccgtc agtatgctgt aaagcaccca catggtaatg ggtgnggact ggtaccatga 300
 ctgntccctt aaaaggtggc cttcccnagg aaaggagaat tcttggacna gggatttcac 360
 ttgnttagaa atgggaaaaa ttaccattta gaattttcgn ttccaaggcn tnaagncccta 420
 aaaggccctt gattcccga ccttaaccct gggcagttaa cctttcaaac gggataaacc 480
 ctgangggga aaatnaaatc ctttaaaaaa gggggggttt naaggagggc tctttggctt 540
 tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
 aacctttact taaacnaacc cttgnccccc catttggggt tgactttcan cctaattgct 660
 gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaacg ggtgccantt 720
 ccangggat tanttcccga aaatttggnn aattttntt tgnaactttt tgggtttttt 780
 cc 873

<210> 758
 <211> 647
 <212> DNA
 <213> Homo sapiens

<400> 760
ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatgna 60
ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120


```
<210> 761
<211> 647
<212> DNA
<213> Homo sapiens
```

<400> 761						
ctttgtggcg	gtggtgtctc	atttgggtgg	acttttttggg	tcgtaggaac	ctggatatnga	60
ggcgggtact	ctctgggata	atcgggtataa	gtgttgtaaa	attgggggta	agagaaagtt	120
tcattataag	aagtggaagc	acgagccggg	gtgttttagtc	gttaatatta	agaccggttt	180
ttgttgtaact	tatatagctt	gcgcgtgggg	aggcaataag	aaacattgcg	tttcgaggcc	240
ggatgcgggg	aaccctcttc	ggggtctaga	gcgcgcgcatc	tgcaaaataa	ggactactga	300
cgcgcctcat	aacgtactca	acaatgagtc	ggcctgcatt	aagatttcgg	cgaagaaccg	360
tactgcgtct	actgatagta	tattgcattg	atagcggcat	gagctttatc	acgtgtcgtt	420
ttcgggttgt	aagaagggag	ttaagtcgat	cttcaggagaa	gaagagaccc	caaataaaaa	480
atgactcaaa	aaaacctaga	agaaacacga	cgaaacgaaa	aagaacgtta	aaactagtag	540
ctcttcggan	gagtagcctt	agtagggtaa	gtcctcogtg	cgtactgtcc	taaggtttgg	600
atagcgcggt	tgaatagacg	gtcacgcgtc	agaaggtaaa	aanccgg		647

```
<210> 762
<211> 628
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(628)  
<223> n=A,T,C or G
```

<400> 762						
cattgtgttg	gggtcactga	gcccactttt	ttccagattt	tttgtaaaat	tgttttcgcat	60
tgtgttccct	ttattcgctt	gtattaatat	ttgcgtagtg	gattaaacaa	atacttggtg	120
ttgactgtca	gtcttagagg	actgactaga	agtagtttct	atttggggct	caggaaatac	180
ctactttata	tttctagcta	attaggaaaag	tcatttttca	gttagggttg	tgttttggtt	240
caggcactcg	ctagctagat	gacctaacat	gctacttaat	ttctgagtg	ttgtgtccat	300
ccctgtagga	ttgttgcggg	gttaaattgaa	attgtgtata	tttgtaaagc	atttacctca	360
gtgccagag	tgtgacagag	tagattatta	ggcttgctct	tattttctgt	attaaaattta	420
gtgtcagatt	agcaacctat	agctacttct	aaagctgctg	ctgtcttctt	tgttttagggt	480
taggaagaaa	catgctggac	agtttgccaa	atgagagtta	catgatgtgg	cttgtgggaa	540
cattctaact	tggaaacttg	ccatttccag	gactttgngg	ttcanagatt	tttggggata	600

gatgtaaggg ttaaaaaaa cngaaaac

628

<210> 763
<211> 147
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(147)
<223> n=A,T,C or G

<400> 763
cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttattgg aatttcaaat 60
gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120
ttttttttat gcacaccacc ttcnnggc 147

<210> 764
<211> 146
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(146)
<223> n=A,T,C or G

<400> 764
cattgtgttg ggtatgtttt ttgaaggcag gtggacagga tttgctgatg ggtaaattggc 60
agagttaggg ggactgttag aacagagaaa ganatcatgg gggtgggttt gagtctgatg 120
nnnaactggg gccgnntgct cagtat 146

<210> 765
<211> 129
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(129)
<223> n=A,T,C or G

<400> 765
tncncgattc gntnctagcg tntacactna tgtottggta ccgagctcgg atccactagt 60
ccagtgtggg nggaattcca ttgtgttggg gcaggaggng ctttgngtac ngtgcggtg 120
nagaggcgg 129

<210> 766
<211> 175
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(175)
 <223> n=A,T,C or G

<400> 766
 cattgtgttg ggcctagtc gaataactttt agtaacttca gacagatctc ctcattctctt 60
 tctggggctt ggnnttttctc ctttgtanaa tgatgccttt ctgtgggttt gtcattttcta 120
 acattctgtg ngtgatgagg tgtatatctg angantctta tcnccanagt actct 175

<210> 767
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(602)
 <223> n=A,T,C or G

<400> 767
 nnnnttaaaa nctgtntctc ccgcgggtggc ggccgctcta gaactagtgg atcctttcca 60
 cctggtttgt tttcagtggt taatcctatt agtatcagca ggatataggt caggatatca 120
 ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180
 aatgagtgag agtacaaagt tcaagccctg ttgagggtct gcattaaact ctcagaagta 240
 tttagagtggt gccaggagcc gcgaagggtc ggttcgggtg gtggcgggaa ctgtattaga 300
 gtgctaggca cggcgcgaca aagtctgtcc aaccctaaac ggtgctgagg cgttgggtgt 360
 gagctccagt actcagaaaa gcctctcagc aggtactcaa cagatcctca ggggcttggg 420
 ggcccagcac tggcagtgag ggcatgaaag acataaaaagg gcactacctg tgggtatttt 480
 ctgttctcca aggaggaagt agcaaaaatt aggacgctgg aatatcctat gttgtagcaa 540
 tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aatttaattct 600
 ta 602

<210> 768
 <211> 671
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(671)
 <223> n=A,T,C or G

<400> 768
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 canaaaatng n 671

<210> 769
 <211> 877
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=A,T,C or G

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 agtgcatttc atatcccctn ctctgngggg naaggtccct cncgnggaga acnnttaaaa 780
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<210> 770
 <211> 874
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=A,T,C or G

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<210> 771
 <211> 156
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=A,T,C or G

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<210> 772
 <211> 586
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(586)
 <223> n=A,T,C or G

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<210> 773
 <211> 2983
 <212> DNA
 <213> Homo sapiens

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<210> 774

<211> 3064

<212> DNA

<213> Homo sapiens

<400> 774

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<210> 775

<211> 684

<212> PRT

<213> Homo sapiens

<400> 775

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Ser	Pro	Val	Phe	Arg	Arg	Gly	Gln	Val	Phe	His	Leu	Arg	Leu	Val	Leu		
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Lys	Pro	Trp	Asn	Phe	Gly	Gln	Phe	Glu	Lys	Asn	Val	Leu	Asp	Cys	Cys		
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Pro	Val	Leu	Val	Cys	Arg	Ala	Met	Cys	Ala	Met	Met	Ser	Phe	Glu	Lys		
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			260						265						270		
Gly	Ile	Leu	Thr	Thr	Val	Leu	Arg	Ala	Leu	Gly	Ile	Pro	Ala	Arg	Ser		
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Asp Ser Val Trp Asn Phe His Val Trp Thr Asp Ala Trp Met Lys Arg		
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Pro Asp Leu Pro Lys Gly Tyr Asp Gly Trp Gln Ala Val Asp Ala Thr		
	340	345 350
Pro Gln Glu Arg Ser Gln Gly Val Phe Cys Cys Gly Pro Ser Pro Leu		
	355	360 365
Thr Ala Ile Arg Lys Gly Asp Ile Phe Ile Val Tyr Asp Thr Arg Phe		
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Val Phe Ser Glu Val Asn Gly Asp Arg Leu Ile Trp Leu Val Lys Met		
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Val Asn Gly Gln Glu Glu Leu His Val Ile Ser Met Glu Thr Thr Ser		
	405	410 415
Ile Gly Lys Asn Ile Ser Thr Lys Ala Val Gly Gln Asp Arg Arg Arg		
	420	425 430
Asp Ile Thr Tyr Glu Tyr Lys Tyr Pro Glu Gly Ser Ser Glu Glu Arg		
	435	440 445
Gln Val Met Asp His Ala Phe Leu Leu Leu Ser Ser Glu Arg Glu His		
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Arg Arg Pro Val Lys Glu Asn Phe Leu His Met Ser Val Gln Ser Asp		
	465	470 475 480
Asp Val Leu Leu Gly Asn Ser Val Asn Phe Thr Val Ile Leu Lys Arg		
	485	490 495
Lys Thr Ala Ala Leu Gln Asn Val Asn Ile Leu Gly Ser Phe Glu Leu		
	500	505 510
Gln Leu Tyr Thr Gly Lys Lys Met Ala Lys Leu Cys Asp Leu Asn Lys		
	515	520 525
Thr Ser Gln Ile Gln Gly Gln Val Ser Glu Val Thr Leu Thr Leu Asp		
	530	535 540
Ser Lys Thr Tyr Ile Asn Ser Leu Ala Ile Leu Asp Asp Glu Pro Val		
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Ile Arg Gly Phe Ile Ile Ala Glu Ile Val Glu Ser Lys Glu Ile Met		
	565	570 575
Ala Ser Glu Val Phe Thr Ser Phe Gln Tyr Pro Glu Phe Ser Ile Glu		
	580	585 590

Leu Pro Asn Thr Gly Arg Ile Gly Gln Leu Leu Val Cys Asn Cys Ile
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Phe Lys Asn Thr Leu Ala Ile Pro Leu Thr Asp Val Lys Phe Ser Leu
610 615 620

Glu Ser Leu Gly Ile Ser Ser Leu Gln Thr Ser Asp His Gly Thr Val
625 630 635 640

Gln Pro Gly Glu Thr Ile Gln Ser Gln Ile Lys Cys Thr Pro Ile Lys
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Glu Ile Asn Ala Gln Lys Ile Val Leu Ile Thr Lys
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<210> 776

<211> 679

<212> PRT

<213> Homo sapiens

<400> 776

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Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
65 70 75 80

Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
85 90 95

Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
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Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
115 120 125

Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu
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Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu

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 275 280 285
 Val Thr Gly Phe Asp Ser Ala His Asp Thr Glu Arg Asn Leu Thr Val
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3639

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35 40 45

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
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Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
65 70 75 80

Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
85 90 95

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
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Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
115 120 125

His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
130 135 140

Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
145 150 155 160

Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
165 170 175

Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
180 185 190

Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
195 200 205

Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
210 215 220

3639 : atccatcaca ctggcggccg ctcgagcatg catctagag

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Leu	Tyr	Ile	Leu	Asp 245	Asn	Asn	His	Thr	His 250	Leu	Leu	Leu	Val	Asp 255	Asn
Gly	Cys	His	Gly 260	His	Pro	Thr	Val	Glu	Ala 265	Lys	Leu	Arg	Asn 270	Gln	Leu
Glu	Lys	Tyr 275	Ile	Ser	Glu	Arg	Thr 280	Ile	Gln	Asp	Ser	Asn 285	Tyr	Gly	Gly
Lys	Ile 290	Pro	Ile	Val	Cys	Phe 295	Ala	Gln	Gly	Gly	Gly 300	Lys	Glu	Thr	Leu
Lys 305	Ala	Ile	Asn	Thr	Ser 310	Ile	Lys	Asn	Lys	Ile 315	Pro	Cys	Val	Val	Val 320
Glu	Gly	Ser	Gly 325	Gln	Ile	Ala	Asp	Val	Ile 330	Ala	Ser	Leu	Val	Glu 335	Val
Glu	Asp	Ala 340	Leu	Thr	Ser	Ser	Ala	Val 345	Lys	Glu	Lys	Leu	Val 350	Arg	Phe
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Ile	Lys 370	Trp	Leu	Lys	Glu	Ile 375	Leu	Glu	Cys	Ser	His 380	Leu	Leu	Thr	Val
Ile 385	Lys	Met	Glu	Glu	Ala 390	Gly	Asp	Glu	Ile	Val 395	Ser	Asn	Ala	Ile	Ser 400
Tyr	Ala	Leu	Tyr 405	Lys	Ala	Phe	Ser	Thr	Ser 410	Glu	Gln	Asp	Lys	Asp 415	Asn
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Val 465	Arg	Leu	Phe	Leu	Glu 470	Asn	Gly	Leu	Asn	Leu 475	Arg	Lys	Phe	Leu	Thr 480
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 Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu
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 Phe Phe Thr Ser Pro Phe Val Val Phe Ser Trp Asn Val Val Phe Tyr
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 Ile Ala Phe Leu Leu Leu Phe Ala Tyr Val Leu Leu Met Asp Phe His
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 755 760 765
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 770 775 780
 Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu Phe Tyr Phe
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Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu
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 Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile Phe Thr Leu
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 Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile
 835 840 845
 Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu
 850 855 860
 Phe Ala Xaa Trp Met Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu
 865 870 875 880
 Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr
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 915 920 925
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 930 935 940
 Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile
 945 950 955 960
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 965 970 975
 Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu
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 Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val
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Ser

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<211> 15

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Gly	Cys	His	Gly	His	Pro	Thr	Val	Glu	Ala	Lys	Leu	Arg	Asn	Gln	Leu	
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545 550 555 560

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Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu
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595 600 605

Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr
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<213> Homo sapien

<400> 819

Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
1 5 10 15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
20 25 30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
35 40 45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
50 55 60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
65 70 75 80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
85 90 95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
100 105 110
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
115 120 125
Gly Pro Pro Ala
130

<210> 820

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 820

ggggaattca tgatccggga gaaatttgcc cactgc

36

<210> 821

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 821

gggctcgagt caggagtttg agaccagcct ggc

33

<210> 822

<211> 675

<212> DNA

<213> Homo sapiens

<400> 822

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atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg ogggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcacatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaaacgt gacattggcc gagggacccc cggccgaatt catgatccgg 420
gagaaatttg cccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480
agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatgtt 540
ttgctgcaaa ataaagagag cctattttac aagatgggtgc aacaactggg caaggcagaa 600
gccgctgcc tcaactgaaac agcaaaacag agatgggggtt tcaccatgtt ggccaggctg 660
gtctcaaaact cctga                                     675

```

<210> 823

<211> 291

<212> DNA

<213> Homo sapiens

<400> 823

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atggggatcc gggagaaatt tgcccactgc accgtgctaa ccattgcaca cagattgaac 60
accattattg acagcgacaa gataatggtt ttagattcag gaagactgaa agaatatgat 120
gagccgtatg ttttgctgca aaataaagag agcctathtt acaagatggt gcaacaactg 180
ggcaaggcag aagccgctgc cctcactgaa acagcaaaac agagatgggg ttccaccatg 240
ttggccaggc tgggtctcaaa ctccctcgag caccaccacc accaccactg a 291

```

<210> 824

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Ile Arg Glu Lys Phe Ala
 130 135 140
 His Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp
 145 150 155 160
 Ser Asp Lys Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp
 165 170 175
 Glu Pro Tyr Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met
 180 185 190
 Val Gln Gln Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala
 195 200 205
 Lys Gln Arg Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser
 210 215 220

<210> 826
 <211> 357
 <212> PRT
 <213> Homo sapiens

<400> 826
 Met Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg Arg
 5 10 15
 Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg Gln
 20 25 30
 Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr Ala
 35 40 45
 Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser Phe
 50 55 60
 Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala
 65 70 75 80
 Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser
 85 90 95
 His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln
 100 105 110
 Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys
 115 120 125
 Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu
 130 135 140

1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly
 145 150 155 160
 Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn Leu
 165 170 175
 Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp Pro
 180 185 190
 Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu Cys
 195 200 205
 Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His Gln
 210 215 220
 Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp Gly
 225 230 235 240
 Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly Ile
 245 250 255
 Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln Pro
 260 265 270
 Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu Ser
 275 280 285
 Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly Ala
 290 295 300
 Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu Glu
 305 310 315 320
 Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr Phe
 325 330 335
 Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Glu His
 340 345 350
 His His His His
 355

<210> 827

<211> 96

<212> PRT

<213> Homo sapiens

<400> 827

Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala
 5 10 15

His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp

	20		25		30
Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn					
	35		40		45
Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu					
	50		55		60
Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met					
	65		70		75
					80
Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His					
	85		90		95

<210> 828
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 828
 cgcccatggg gatccgggag aaatttgccc actgc 35

<210> 829
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 829
 cgctcgagg gagtttgaga ccagcctggc caaca 35

<210> 830
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 830
 gcatggacca tatgtcagcc attgagaggg tgtcagag 38

<210> 831
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>

<223> PCR primer

<400> 831

ccgctcgaga ataaggaaaa tgaagacaat ccag

34

<210> 832

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 832

gttgaattca tgcacggggc ccagggtg

27

<210> 833

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 833

ccccctcgagt cactatgggtc tgcctcttga

30

<210> 834

<211> 915

<212> DNA

<213> Homo sapiens

<400> 834

```

atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgacacgag tccaacgcgt ggtcggggagc gtcccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcacatcatc cgggtgacgtc atctcgggtga cctggcaaac caagtccggc 360
ggcacgcgta cagggaaacgt gacattggcc gagggacccc cggccgaatt catgcacggg 420
ccccaggtgc tggcacgctg ctccgagtggt gcttgtcctg ccttggctgc cactctcgcg 480
ggggtgcgtc tggaggggggt ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540
ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600
aaagcagatg gcccttggcc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660
gcgagtgagg ttggtggctg tgccccagc tcctggcgcg ccctcgcaga ggtgactggg 720
tgctctttgg gccctcttgg ccttgcccag catgcacaag cctcagtgtc actactgtgc 780
tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaagg gtatgctgcc 840
tttggggggt ccagtccttg cctcaagggt cttatgtcac tgtgggcttc ttggttgtca 900
agaggcagac catag                                     915

```

<400>	835															
Met	His	His	His	His	His	His	Thr	Ala	Ala	Ser	Asp	Asn	Phe	Gln	Leu	
				5					10					15		
Ser	Gln	Gly	Gly	Gln	Gly	Phe	Ala	Ile	Pro	Ile	Gly	Gln	Ala	Met	Ala	
			20					25					30			
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala	
		35					40					45				
Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val	
	50					55					60					
Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr	
65					70					75					80	
Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr	
				85					90					95		
Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser	
			100					105					110			
Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr	
		115					120					125				
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Met	His	Gly	Pro	Gln	Val	Leu	
	130					135					140					
Ala	Arg	Cys	Ser	Glu	Cys	Ala	Cys	Pro	Ala	Leu	Ala	Ala	Thr	Ser	Ala	
145					150					155					160	
Gly	Val	Arg	Leu	Glu	Gly	Val	Asp	Arg	Pro	Pro	Thr	Leu	Pro	Ser	Gln	
				165					170					175		
Gly	Ser	Gly	Trp	Pro	Cys	Ser	His	Ser	Leu	Ser	Gly	Cys	His	Leu	Met	
			180					185					190			
Ala	Asp	Gly	Ala	Lys	Ala	Leu	Gly	Lys	Ala	Asp	Gly	Pro	Trp	Pro	Tyr	
		195					200					205				
Leu	Phe	Val	Arg	Arg	Thr	Asp	Val	Pro	Cys	Pro	Ala	Ala	Ser	Glu	Val	
	210					215					220					
Gly	Gly	Cys	Ala	Pro	Ser	Ser	Trp	Arg	Ala	Leu	Ala	Glu	Val	Thr	Gly	
225					230					235					240	
Cys	Ser	Leu	Gly	Pro	Leu	Gly	Leu	Ala	Gln	His	Ala	Gln	Ala	Ser	Val	
				245					250					255		

<400> 838															
Met	Gly	His	His	His	His	His	His	Val	Glu	Ala	Ser	Leu	Ser	Val	Arg
1				5					10					15	
His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile
			20					25					30		
Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu	Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser
		35					40					45			
Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly

```
<210> 839
<211> 504
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(504)
<223> n = A,T,C or G
```

<400>	839								
atgggccatc	atcatcatca	tacgtgag	gccagctct	cgtacggca	cccagagtac				60
aacagaccct	tgtcgtaaa	cgaacctgatg	ctcatcaagt	tggacgaatc	cgtgtccgag				120
tctgacacca	tccggagcat	cagcattgct	tgcagtgcc	ctaccgcggg	gaactcttgc				180
ctcgtttctg	gtgggtct	gctggcgaac	ggcagaatgc	ctaccgtgct	gcagtgcgtg				240
aacgtgtcgg	tgggtgtctga	ggagggtctgc	agtaagctct	atgaccgcgt	gtaccacccc				300
agcatgttct	gcgcggcgg	agggcaanac	cagaangact	cctgcaacgg	tgactctggg				360
gggccctga	tctgcaacgg	gtacttgcag	ggccttgtgt	cttcggaaa	agccccgtgt				420
ggccaagttg	gcgtgccagg	tgtctacacc	aacctctgca	aattcactga	gtggatatagag				480
aaaaccgtcc	aggccagtta	atga							504

```
<210> 840
<211> 21
<212> DNA
<213> Artificial Sequence
```

<220>
<223> PCR primer

<400> 840
ctcagggttc cggagccgcg g 21

```
<210> 841
<211> 35
<212> DNA
<213> Artificial Sequence
```

60
120

```

atcctgcggg acggcgcgca gcggaaggc ggccgcacga gcagccagag acagcgcgac 180
ccggagccgg agccagagcc agagccagag ggaggacgca gccgcgccgg ggcgcagaac 240
gaccagctga gcaccgggcc ccgcgccgag ccggatgagg ccgagacgct ggcagagacc 300
gagccagaaa ggcacttggg gtcttatctg ttggactctg aaaacacttc aggcgccctt 360
ccaaggcttc cccaaacccc taagcagccg cagaagcgct cccgagctgc cttctcccac 420
actcaggtga tcgagttgga gaggaagttc agccatcaga agtacctgtc ggcccctgaa 480
cgggcccacc tggccaagaa cctcaagctc acggagaccc aagtgaagat atggttccag 540
aacagacgct ataagactaa gcgaaagcag ctctcctcgg agctgggaga cttggagaag 600
cactcctttt tgccggccct gaaagaggag gccttctccc gggcctccct ggtctccgtg 660
tataacagct atccttacta cccatacctg cactgcgtgg gcagctggag cccagctttt 720
tggtaatga 729

```

<210> 844
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 844
 ctactaagcg ctggagtgag ggatcag

27

<210> 845
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 845
 catcgagaat tcactactct ctgactagat gtc

33

<210> 846
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 846
 Met Gln His His His His His Ala Gly Val Arg Asp Gln Gly Gln
 1 5 10 15
 Gly Ala Arg Trp Pro His Thr Gly Lys Arg Gly Pro Leu Leu Gln Gly
 20 25 30
 Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Glu Ser Gly
 35 40 45
 Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys
 50 55 60
 Pro Glu Ala Val Ala Gly Phe Pro Leu Gly Ser Asp Cys Arg Glu Gly
 65 70 75 80
 Gly Arg Gln Gly Cys Gly Gly Ser Asp Asp Glu Asp Asp Leu Gly Val

```
<210> 847
<211> 489
<212> DNA
<213> Homo sapiens
```

```
<210> 848
<211> 132
<212> PRT
<213> Homo sapiens
```

<400>	848
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe	
1 5 10 15	
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser	
20 25 30	
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly	
35 40 45	
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val	
50 55 60	
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val	
65 70 75 80	
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala	
85 90 95	
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp	
100 105 110	
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu	
115 120 125	
Gly Pro Pro Ala	
130	

<210> 849
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 849
 ggggaattca tcacctatgt gccgcctctg c 31

<210> 850
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 850
 gggctcgagt cactcgccca cgaaatccgt gtaaaacagc 40

<210> 851
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 851
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttctc ggcttggtg ttgtcgacaa caacggcaac 180
 ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcacatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
 ggcacgcgta cagggaaagt gacattggcc gagggacccc cggccgaatt catcacctat 420
 gtgcgcctc tgctgctgga agtgggggta gaggagaagt tcatgaccat ggtgctgggc 480
 attggtccag tgctgggcct ggtctgtgtc ccgctcctag gctcagccag tgaccactgg 540
 cgtggacgct atggccgcgc cgggcccttc atctgggcac tgtccttggg catcctgctg 600
 agcctctttc tcatcccaag ggccggctgg ctagcagggc tgctgtgccc ggatcccagg 660
 cccctggagc tggcactgct catcctgggc gtggggctgc tggacttctg tggccagggtg 720
 tgettcaact cactggaggc cctgctctct gacctcttcc gggaccgga cactgtcgc 780
 caggcctaact ctgtctatgc cttcatgatc agtcttgggg gctgcctggg ctacctcctg 840
 cctgccattg actgggacac cagtgccttg gccccctacc tgggcacca ggaggagtgc 900
 ctctttggcc tgctcaccct catcttcctc acctgcgtag cagccacact gctggtggct 960
 gaggaggcag cgctgggccc caccgagcca gcagaagggc tgtcgccccc ctcttgtcg 1020
 cccactgct gtccatgccg ggcccgttg gctttccgga acctgggcgc cctgcttccc 1080
 cggtgcacc agctgtgctg ccgatgccc cgcaccctgc gccggtctt cgtggctgag 1140
 ctgtgcagct ggatggcact catgaccttc acgctgtttt acacggattt cgtgggcgag 1200
 tga 1203

<210> 852

<211> 400
 <212> PRT
 <213> Homo sapiens

<400> 852

```

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
              5                      10                      15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
              20                      25                      30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
              35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
              50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
              65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
              85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
              100                      105                      110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
              115                      120                      125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Thr Tyr Val Pro Pro Leu
              130                      135                      140

Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr Met Val Leu Gly
              145                      150                      155                      160

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
              165                      170                      175

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
              180                      185                      190

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
              195                      200                      205

Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
              210                      215                      220

Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
              225                      230                      235                      240

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
              245                      250                      255

Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu

```

260	265	270
Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser		
275	280	285
Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu		
290	295	300
Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala		
305	310	315
Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala		
325	330	335
Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe		
340	345	350
Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg		
355	360	365
Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp		
370	375	380
Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu		
385	390	395
		400

<210> 853

<211> 20

<212> PRT

<213> Homo sapiens

<400> 853

Leu	Leu	Pro	Pro	Pro	Pro	Ala	Leu	Cys	Gly	Ala	Ser	Ala	Cys	Asp	Val
				5					10					15	

Ser	Val	Arg	Val
			20

<210> 854

<211> 60

<212> DNA

<213> Homo sapiens

<400> 854

ctgctccac ctccaccgc gctctgcggg gcctctgcct gtgatgtctc cgtacgtgtg 60

<210> 855

<211> 10

<212> PRT

<213> Homo sapiens

<400> 855

Ala Ser Ala Cys Asp Val Ser Val Arg Val
 5 10

<210> 856
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 856
 gcctctgcct gtgatgtctc cgtacgtgtg 30

<210> 857
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 857
 Ala Ser Ala Cys Asp Val Ser Val Arg
 1 5

<210> 858
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 858
 Ser Ala Cys Asp Val Ser Val Arg Val
 5

<210> 859
 <211> 27
 <212> DNA
 <213> Homo sapiens

<400> 859
 tctgcctgtg atgtctccgt acgtgtg 27

<210> 860
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 860
 Gly Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser
 5 10 15

Ala Ser Asp

<210> 861
 <211> 19

<212> PRT
 <213> Homo sapiens

<400> 861
 Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr
 5 10 15
 Met Val Leu

<210> 862
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 862
 Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
 5 10 15
 Gln Leu Leu

<210> 863
 <211> 57
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(57)
 <223> n = A,T,C or G

<400> 863
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<210> 864
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 <213> Homo sapiens

<220>
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 <222> (1)...(57)
 <223> n = A,T,C or G

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<220>

<221> misc_feature

<222> (1)...(57)

<223> n = A,T,C or G

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<210> 866

<211> 9

<212> PRT

<213> Homo sapiens

<400> 866

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<210> 867

<211> 9

<212> PRT

<213> Homo sapiens

<400> 867

Arg Met Pro Thr Val Leu Gln Cys Val
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<210> 868

<211> 9

<212> PRT

<213> Homo sapiens

<400> 868

Asn Leu Cys Lys Phe Thr Glu Trp Ile
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<210> 869

<211> 9

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<213> Homo sapiens

<400> 869

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1 5

<210> 870

<211> 9

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<213> Homo sapiens

<400> 870

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1 5

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<400> 871
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 1 5 10

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 <212> PRT
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<400> 873
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<400> 875
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 <212> PRT
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<400> 876
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<210> 877
 <211> 9
 <212> PRT
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<400> 877
 Val Leu Val His Pro Gln Trp Val Leu
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 <213> Homo sapiens

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<210> 879
 <211> 339
 <212> PRT
 <213> Homo sapiens

<400> 879
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 20 25 30

Gly Glu Thr Ser Met Leu Lys Arg Pro Val Leu Leu His Leu His Gln
 35 40 45

Thr	Ala	His	Ala	Asp	Glu	Phe	Asp	Cys	Pro	Ser	Glu	Leu	Gln	His	Thr		
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Gln	Glu	Leu	Phe	Pro	Gln	Trp	His	Leu	Pro	Ile	Lys	Ile	Ala	Ala	Ile		
65					70					75						80	
Ile	Ala	Ser	Leu	Thr	Phe	Leu	Tyr	Thr	Leu	Leu	Arg	Glu	Val	Ile	His		
85					90					95							
Pro	Leu	Ala	Thr	Ser	His	Gln	Gln	Tyr	Phe	Tyr	Lys	Ile	Pro	Ile	Leu		
100					105					110							
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115					120					125							
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145					150					155						160	
Arg	Lys	Gln	Phe	Gly	Leu	Leu	Ser	Phe	Phe	Phe	Ala	Val	Leu	His	Ala		
165					170					175							
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180					185					190							
Leu	Asn	Trp	Ala	Tyr	Gln	Gln	Val	Gln	Gln	Asn	Lys	Glu	Asp	Ala	Trp		
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225					230					235						240	
Val	Ser	Asp	Ser	Leu	Thr	Trp	Arg	Glu	Phe	His	Tyr	Ile	Gln	Ser	Lys		
245					250					255							
Leu	Gly	Ile	Val	Ser	Leu	Leu	Leu	Gly	Thr	Ile	His	Ala	Leu	Ile	Phe		
260					265					270							
Ala	Trp	Asn	Lys	Trp	Ile	Asp	Ile	Lys	Gln	Phe	Val	Trp	Tyr	Thr	Pro		
275					280					285							
Pro	Thr	Phe	Met	Ile	Ala	Val	Phe	Leu	Pro	Ile	Val	Val	Leu	Ile	Phe		
290					295					300							
Lys	Ser	Ile	Leu	Phe	Leu	Pro	Cys	Leu	Arg	Lys	Lys	Ile	Leu	Lys	Ile		
305					310					315						320	
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Ser Gln Leu

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 <211> 2172
 <212> DNA
 <213> Homo sapiens

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<210> 881
 <211> 2455
 <212> DNA
 <213> Homo sapiens

<400> 881

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<210> 882

<211> 2455

<212> DNA

<213> Homo sapiens

<400> 882

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<210> 883

<211> 62

<212> PRT

<213> Homo sapiens

<400> 883

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Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
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His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
                20                25                30

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Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
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Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
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<210> 884
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 884
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 35 40 45
 Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
 50 55 60
 Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
 65 70 75 80
 Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
 85 90 95
 Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
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 Leu Leu Asn Tyr Gln Val Ser
 130 135

<210> 885
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 885
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 20 25 30
 Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
 35 40 45
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75

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Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
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Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
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[illegible]

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Gly Pro Pro Ser Pro Ser Met Val
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<210> 891
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 891
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 20 25 30
 Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
 35 40 45
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 50 55 60
 Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
 65 70 75

<210> 892
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 892
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 20 25 30
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 893
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 893
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 894
 <211> 2479
 <212> DNA
 <213> Homo sapiens

<400> 894

gtcatattga	acattccaga	tacctatcat	tactcgatgc	tgttgataac	agcaagatgg	60
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cggaaaaccc	ctatcccgcg	cagcccactg	tggtccccac	tgtctacgag	gtgcatccgg	180
ctcagtacta	cccgcccccc	gtgccccagt	acgccccgag	ggctctgacg	caggcttcca	240
accccgctgt	ctgcacgcag	cccaaatccc	catccgggac	agtgtgcacc	tcaaagacta	300
agaaagcact	gtgcatcacc	ttgaccctgg	ggaccttcct	cgtgggagct	gcgctggccg	360
ctggcctact	ctggaagttc	atgggcagca	agtgtctcaa	ctctgggata	gagtgcgact	420
cctcaggtac	ctgcatcaac	ccctctaact	ggtgtgatgg	cgtgtcacac	tgccccggcg	480
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agaacaatga	cattgcgctg	atgaagctgc	agaagcctct	gactttcaac	gacctagtga	1140
aaccagtgtg	tctgccccac	ccaggcatga	tgtctgcagc	agaacagctc	tgctggattt	1200
ccgggtgggg	ggccaccgag	gagaaaggga	agacctcaga	agtgtctaac	gctgccaagg	1260
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cgtttttaca	gaaaacaatg	gggctggttt	tgcttccccg	tgcatgattt	actcttagag	1620
atgattcaga	ggtcacttca	tttttattaa	acagtgaact	tgtctggctt	tggcactctc	1680
tgccatactg	tgcaggctgc	agtggctccc	ctgcccagcc	tgctctccct	aacccttgg	1740
ccgcaagggg	tgatggccgg	ctggttggtg	gcactggcgg	tcaattgtgg	aaggaagagg	1800
ggttgagggt	gccccatttg	agatcttcc	ggtgagtcct	ttccaggggc	caattttgga	1860
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gatggtggcc	agaaataaag	ggaccagccc	ttcatgggtg	gtgacgtggt	agtcacttgt	2100
aagggaacaa	gaaacatttt	tgttcttatg	gggtgagaat	atagacagtg	cccttggtgc	2160
gagggaagca	attgaaaagg	aacttgccct	gagcactcct	ggtgcaggtc	tccacctgca	2220
cattgggtgg	ggctcctggg	agggagactc	agccttcctc	ctcatcctcc	ctgaccctgc	2280

```

tcttagcacc ctggagagtg aatgccctt ggtccctggc agggcgccaa gtttggcacc 2340
atgtcggcct cttcaggcct gatagtcatt ggaaattgag gtccatgggg gaaatcaagg 2400
atgtcagtt taaggtacac tgtttccatg ttatgtttct acacattgat ggtggtgacc 2460
ctgagttcaa agccatctt                                     2479

```

<210> 895

<211> 492

<212> PRT

<213> Homo sapiens

<400> 895

```

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
              5              10              15

```

```

Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
              20              25              30

```

```

Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
              35              40              45

```

```

Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
              50              55              60

```

```

Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
              65              70              75              80

```

```

Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
              85              90              95

```

```

Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
              100              105              110

```

```

Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
              115              120              125

```

```

Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
              130              135              140

```

```

Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
              145              150              155              160

```

```

Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
              165              170              175

```

```

Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
              180              185              190

```

```

Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
              195              200              205

```

```

Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
              210              215              220

```

```

Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg

```

225 230 235 240
 Cys Leu Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
 245 250 255
 Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
 260 265 270
 Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
 275 280 285
 Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn
 290 295 300
 Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
 305 310 315 320
 Phe Tyr Gly Ala Gly Tyr Gln Val Gln Lys Val Ile Ser His Pro Asn
 325 330 335
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
 340 345 350
 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
 355 360 365
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
 370 375 380
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
 385 390 395 400
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
 405 410 415
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
 420 425 430
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
 435 440 445
 Asn Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
 450 455 460
 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
 465 470 475 480
 Thr Asp Trp Ile Tyr Arg Gln Met Lys Ala Asn Gly
 485 490

<210> 896

<211> 683

<212> DNA

<213> Homo sapiens

<400> 896

```

gtcatattga acattccaga tacctatcat tactcgatgc tgttgataac agcaagatgg 60
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cgaaaaacc cttatcccgca cagcccactg tgggtcccccac tgtctacgag gtgcatccgg 180
ctcagtacta cccgtccccc gtgccccagt acgccccgag ggtcctgacg caggcttcca 240
accccgctcg ctgcacgcag cccaaatccc catccgggac agtgtgcacc tcaaagacta 300
agaaagcact gtgcatcacc ttgaccttg ggaccttcct cgtgggagct gcgctggccg 360
ctggcctact ctggaagtgc atgggcagca agtgtcctca ctctgggata gagtgcgact 420
cctcaggtac ctgcatcaac cctctaaact ggtgtgatgg cgtgtcacac tgccccggcg 480
gggaggacga gaatcggtgt gttcgcctct acggaccaa cttcatcctt cagatgtact 540
catctcagag gaagtcctgg caccctgtgt gccaaagacga ctggaacgag aactacgggc 600
ggcgggcctg cagggacatg ggcataaga ataattttta ctctagccaa ggaatagtgg 660
atgacagcgg atccaccagc ttt                                     683

```

<210> 897

<211> 209

<212> PRT

<213> Homo sapiens

<400> 897

```

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
1      5      10      15
Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
20     25     30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
35     40     45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
50     55     60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
65     70     75     80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
85     90     95
Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
100    105    110
Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
115    120    125
Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
130    135    140
Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
145    150    155    160
Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
165    170    175
Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
180    185    190
Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
195    200    205
Phe

```

<210> 898
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 898
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
 1 5 10 15
 Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg
 20 25

<210> 899
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 899
 ggatccgccg ccaccatgtc actttctagc ctgct

35

<210> 900
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 900
 gtcgactcag ctggaccaca gccgcag

27

<210> 901
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 901
 ggatccgccg ccaccatggg ctgcaggctg ctct

34

<210> 902
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 902
gtcgactcag aaatcctttc tcttgac

27

<210> 903
<211> 936
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G

<400> 903
atgggctgca ggctgntctg ctgtgcggtt ctctgtctcc tgggagcggc ccccatggaa 60
acgggagtta cgcagacacc aagacacctg gtcatgggaa tgacaaataa gaagtctttg 120
aaatgtgaac aacatctggg tcataacgct atgtattggc acaagcaaag tgctaagaag 180
ccactggagc tcatgtttgt ctacagtctt gaagaacggg ttgaaaacaa cagtgtgcca 240
agtcgcttct cacctgaatg ccccaacagc tctcacttat tccttcacct acacaccctg 300
cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
tacgagcagt acttcgggcc gggcaccagg ctacaggcca cagaggacct gaaaaacgtg 420
ttccaccccg aggtcgctgt gtttgagcca tcagaagcag agatctccca caccctaaag 480
gccacactgg tgtgcctggc cacaggcttc taccgccacc acgtggagct gagctggtgg 540
gtgaatggga aggaggtgca cagtgggggc agcacagacc cgcagccctc caaggagcag 600
cccgccctca atgactccag atactgcctg agcagccgcc tgaggggtct gccacacctc 660
tggcagaacc cccgcaacca cttccgctgt caagtccagt tctacgggct ctcgagaaat 720
gacgagtggg cccaggatag ggccaaacct gtcacccaga tcgtcagcgc cgaggcctgg 780
ggtagagcag actgtggcct cacctccgag tcttaccagc aaggggtcct gtctgccacc 840
atcctctatg agatcttgct aggggaaggc accttgatg ccgtgctggc cagtgccctc 900
gtgctgatgg ccattggtcaa gagaaaggat ttctga 936

<210> 904
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G

<400> 904
atgtcacttt ctagcctgct naagggtggc acagcttcac tgtggctagg acctggcatt 60
gccagaaga taactcaaac ccaaccagga atgttcgtgc aggaaaagga ggctgtgact 120
ctggactgca catatgacac cagtgatcaa agttatggc tcttctggta caagcagccc 180
agcagtgggg aaatgatttt tcttatttat caggggtctt atgacgagca aaatgcaaca 240
gaaggctcgt actcattgaa tttccagaag gcaagaaaat ccgccaacct tgtcatctcc 300
gcttcacaac tgggggactc agcaatgtat ttctgtgcaa tgagagaggg cgcgggagga 360
ggaaacaaac tcacctttgg gacaggcact cagctaaaag tggaactcaa tatccagaac 420
cctgaccctg ccgtgtacca gctgagagac tctaaatcca gtgacaagtc tgtctgccta 480
ttcacccgatt ttgattctca aacaaatgtg tcacaaagta aggattctga tgtgtatata 540
acagacaaaa ctgtgctaga catgaggtct atggacttca agagcaacag tgctgtggcc 600
tggagcaaca aatctgactt tgcattgtga aacgccttca acaacagcat tattccagaa 660

```
<210> 905
<211> 311
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> variant  
<222> (1)...(311)  
<223> Xaa = Any amino acid
```

```
<400> 905
Met Gly Cys Arg Leu Xaa Cys Cys Ala Val Leu Cys Leu Leu Gly Ala
      5                                10                        15
```

Val Pro Met Glu Thr Gly Val Thr Gln Thr Pro Arg His Leu Val Met
20 25 30

Gly Met Thr Asn Lys Lys Ser Leu Lys Cys Glu Gln His Leu Gly His
35 40 45

Asn Ala Met Tyr Trp Tyr Lys Gln Ser Ala Lys Lys Pro Leu Glu Leu
50 55 60

Met Phe Val Tyr Ser Leu Glu Glu Arg Val Glu Asn Asn Ser Val Pro
65 70 75 80

Ser Arg Phe Ser Pro Glu Cys Pro Asn Ser Ser His Leu Phe Leu His
85 90 95

Leu His Thr Leu Gln Pro Glu Asp Ser Ala Leu Tyr Leu Cys Ala Ser
100 105 110

Ser Gln Asp Arg Thr Ser Ser Ser Tyr Glu Gln Tyr Phe Gly Pro Gly
115 120 125

Thr Arg Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
130 135 140

Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys
145 150 155 160

Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu
165 170 175

Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr
180 185 190

Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr
195 200 205

Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu
145 150 155 160

Phe Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser
165 170 175

Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp
180 185 190

Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala
195 200 205

Cys Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe
210 215 220

Pro Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe
225 230 235 240

Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe
245 250 255

Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu
260 265 270

Arg Leu Trp Ser Ser
275

<210> 907

<211> 1536

<212> DNA

<213> Homo sapiens

<400> 907

```

atgtacaacc tgttgctgtc ctacgacaga catggggacc acctgcagcc cctggacctc 60
gtgcccaatc accagggtct caccctttc aagctggctg gagtggaggg taacactgtg 120
atgtttcagc acctgatgca gaagcggag caccaccagt ggacgtatgg accactgacc 180
tcgactctct atgacctcac agagatcgac tcctcagggg atgagcagtc cctgctggaa 240
cttatcatca ccaccaagaa gcgggaggct cgccagatcc tggaccagac gccggtgaag 300
gagctgggtga gctcaagtg gaagcggtag gggcgccgt acttctgcat gctgggtgcc 360
atatatctgc tgtacatcat ctgcttcacc atgtgctgca tctaccgcc cctcaagccc 420
aggaccaata accgcacgag ccccgggac aacaccctct tacagcagaa gctacttcag 480
gaagcctaca tgaccctaa ggacgatata cggctgggtc gggagctggt gactgtcatt 540
ggggctatca tcatcctgct ggtagaggtt ccagacatct tcagaatggg ggtcactcgc 600
ttctttggac agaccatcct tgggggcccc ttccatgtcc tcatcatcac ctatgccttc 660
atggtgctgg tgaccatggt gatgcggctc atcagtgcc gcggggaggt ggtacccatg 720
tcctttgcac tcgtgctggg ctggtgcaac gtcattgtact tcgcccagag attccagatg 780
ctaggccctc tcaccatcat gattcagaag atgatttttg gcgacctgat gcgattctgc 840
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gaggaccccg aggagctagg ccacttctac gactacccca tggccctggt cagcaccttc 960
gagctgttcc ttaccatcat cgatggccca gccaaactaca acgtggacct gcccttcatt 1020
tacagcatca cctatgctgc ctttgccatc atcgccacac tgctcatgct caacctcttc 1080
attgccatga tgggcgacac tcactggcga gtggcccatg agcgggatga gctgtggagg 1140

```

```

gccagattg tggccaccac ggtgatgctg gagcggaagc tgcctcgctg cctgtggcct 1200
cgctccggga tctgcgagac ggagtatggc ctgggagacc gctgggttcct gcgggtggaa 1260
gacaggcaag atctcaaccg gcagcggatc caacgctacg cacaggcctt ccacaccggg 1320
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ccccacctgt ccttctctat gccctcagtg tctogaagta cctcccgag cagtgccaat 1440
tggaagagc ttcggcaagg gaccctgagg agagacctgc gtgggataat caacaggggt 1500
ctggaggacg gggagagctg ggaatatcag atctga 1536

```

```

<210> 908
<211> 1533
<212> DNA
<213> Homo sapiens

```

```

<400> 908
atgtacaacc tgttgctgtc ctacgacaga catgggggacc acctgcagcc cctggacctc 60
gtgcccacac accaggggtc cacccttttc aagctggctg gactggaggg taacctgtg 120
atgtttcagc acctgatgca gaagcgggaag cacaccaggt ggacgtatgg accactgacc 180
tcgactctct atgacctcac agagatcgac tctcagggg atgagcagtc cctgctggaa 240
cttatcatca ccaccaagaa gcgggaggct cgccagatcc tggaccagac gccggtgaag 300
gagctgggtg gcctcaagtg gaagcgggtac gggcgggcgt acttctgcat gctgggtgcc 360
atatactctg tgtacatcat ctgcttcacc atgtgctgca tctaccgcc cctcaagccc 420
aggaccaata accgcacgag ccccggggac aacacctctt tacagcagaa gctacttcag 480
gaagcctaca tgacctctaa ggacgatatc cggctggctg gggagctggt gactgtcatt 540
ggggctatca tcatcctgct ggtagaggtt ccagacatct tcagaatggg ggtcactcgc 600
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atggtgctgg tgacctggt gatgcggctc atcagtgcc gcggggagg gtacctcatg 720
tcctttgcac tcgtgctggg ctggtgcaac gtcagtact tcgcccagg attccagatg 780
ctaggcccct tcacctcat gattcagaag atgatttttg gcgacctgat gcgattctgc 840
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gaggacccc aggagctagg ccacttctac gactaccca tggccctgtt cagcaccttc 960
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ccccacctgt ccttctctat gccctcagtg tctogaagta cctcccgag cagtgccaat 1440
tggaagagc ttcggcaagg gaccctgagg agagacctgc gtgggataat caacaggggt 1500
ctggaggacg gggagagctg ggaatatcag atc 1536

```

```

<210> 909
<211> 511
<212> PRT
<213> Homo sapiens

```

```

<400> 909
Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
      5                                10                                15

Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
      20                                25                                30

Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys

```

35	40	45
Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr		
50	55	60
Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu		
65	70	75
Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln		
	85	90
Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg		
	100	105
Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys		
	115	120
Phe Thr Met Cys Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn		
	130	135
Arg Thr Ser Pro Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln		
	145	150
Glu Ala Tyr Met Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu		
	165	170
Val Thr Val Ile Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp		
	180	185
Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly		
	195	200
Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val		
	210	215
Thr Met Val Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met		
	225	230
Ser Phe Ala Leu Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg		
	245	250
Gly Phe Gln Met Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile		
	260	265
Phe Gly Asp Leu Met Arg Phe Cys Trp Leu Met Ala Val Val Ile Leu		
	275	280
Gly Phe Ala Ser Ala Phe Tyr Ile Ile Phe Gln Thr Glu Asp Pro Glu		
	290	295
Glu Leu Gly His Phe Tyr Asp Tyr Pro Met Ala Leu Phe Ser Thr Phe		
	305	310
Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro Ala Asn Tyr Asn Val Asp		

325 330 335
 Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala Ala Phe Ala Ile Ile Ala
 340 345 350
 Thr Leu Leu Met Leu Asn Leu Leu Ile Ala Met Met Gly Asp Thr His
 355 360 365
 Trp Arg Val Ala His Glu Arg Asp Glu Leu Trp Arg Ala Gln Ile Val
 370 375 380
 Ala Thr Thr Val Met Leu Glu Arg Lys Leu Pro Arg Cys Leu Trp Pro
 385 390 395 400
 Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly Leu Gly Asp Arg Trp Phe
 405 410 415
 Leu Arg Val Glu Asp Arg Gln Asp Leu Asn Arg Gln Arg Ile Gln Arg
 420 425 430
 Tyr Ala Gln Ala Phe His Thr Arg Gly Ser Glu Asp Leu Asp Lys Asp
 435 440 445
 Ser Val Glu Lys Leu Glu Leu Gly Cys Pro Phe Ser Pro His Leu Ser
 450 455 460
 Leu Pro Met Pro Ser Val Ser Arg Ser Thr Ser Arg Ser Ser Ala Asn
 465 470 475 480
 Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg Arg Asp Leu Arg Gly Ile
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 Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser Trp Glu Tyr Gln Ile
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 <212> PRT
 <213> Homo sapiens

<400> 910
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 Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
 35 40 45
 Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
 50 55 60

Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
65 70 75 80

Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
85 90 95

Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
100 105 110

Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
115 120 125

Phe Thr Met Cys Cys Ile
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<210> 911

<211> 55

<212> PRT

<213> Homo sapiens

<400> 911

Ala Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro Arg
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Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met Thr
20 25 30

Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile Gly
35 40 45

Ala Ile Ile Ile Leu Leu Val
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<210> 912

<211> 39

<212> PRT

<213> Homo sapiens

<400> 912

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Met Val Leu Val Thr Met Val
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<210> 913

<211> 19

<212> PRT

<213> Homo sapiens

<400> 913

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Leu Val Leu

<210> 914

<211> 52

<212> PRT

<213> Homo sapiens

<400> 914

Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met Leu Gly
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Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu Met Arg
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Phe Cys Trp Leu Met Ala Val Val Ile Leu Gly Phe Ala Ser Ala Phe
35 40 45

Tyr Ile Ile Phe
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<210> 915

<211> 213

<212> PRT

<213> Homo sapiens

<400> 915

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20 25 30

Ala Asn Tyr Asn Val Asp Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala
35 40 45

Ala Phe Ala Ile Ile Ala Thr Leu Leu Met Leu Asn Leu Leu Ile Ala
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Met Met Gly Asp Thr His Trp Arg Val Ala His Glu Arg Asp Glu Leu
65 70 75 80

Trp Arg Ala Gln Ile Val Ala Thr Thr Val Met Leu Glu Arg Lys Leu
85 90 95

Pro Arg Cys Leu Trp Pro Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly

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 Leu Gly Asp Arg Trp Phe Leu Arg Val Glu Asp Arg Gln Asp Leu Asn
 115 120 125
 Arg Gln Arg Ile Gln Arg Tyr Ala Gln Ala Phe His Thr Arg Gly Ser
 130 135 140
 Glu Asp Leu Asp Lys Asp Ser Val Glu Lys Leu Glu Leu Gly Cys Pro
 145 150 155 160
 Phe Ser Pro His Leu Ser Leu Pro Met Pro Ser Val Ser Arg Ser Thr
 165 170 175
 Ser Arg Ser Ser Ala Asn Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg
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 Trp Glu Tyr Gln Ile
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<210> 917
 <211> 2061
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 <213> Homo sapiens

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 tactattgtg tcaagtctct g 2061

<210> 918
 <211> 957
 <212> DNA
 <213> Homo sapiens

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<210> 919

<211> 954

<212> DNA

<213> Homo sapiens

<400> 919

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<210> 920

<211> 318

<212> PRT

<213> Homo sapiens

<400> 920

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Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu Ala Phe
          20                      25                      30

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Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile
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Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile
          50                      55                      60

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Phe Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser
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 Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln
 85 90 95
 Phe Asp Ala Cys Leu Leu Gln Met Phe Ala Ile His Ser Leu Ser Gly
 100 105 110
 Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
 115 120 125
 Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val
 130 135 140
 Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala
 145 150 155 160
 Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile
 165 170 175
 Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys
 180 185 190
 Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser
 195 200 205
 Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile
 210 215 220
 Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe
 225 230 235 240
 Gly Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro
 245 250 255
 Phe Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser
 260 265 270
 Pro Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val
 275 280 285
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<210> 921

<211> 28

<212> PRT

<213> Homo sapiens

<400> 921

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<210> 922

<211> 9

<212> PRT

<213> Homo sapiens

<400> 922

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<210> 923

<211> 21

<212> PRT

<213> Homo sapiens

<400> 923

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Ala Cys Leu Leu Gln
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<210> 924

<211> 20

<212> PRT

<213> Homo sapiens

<400> 924

Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Thr Val Leu
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Thr Leu Pro Arg
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<210> 925

<211> 37

<212> PRT

<213> Homo sapiens

<400> 925

Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile Leu Ser His Ser
 5 10 15

Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Asp Asp Ile Arg

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25

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Val Asn Val Val Tyr
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<210> 927
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<400> 927
Val His Arg Phe Ser Lys Arg Arg Asp Ser
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<210> 928
<211> 22
<212> PRT
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Thr His Ala Ser Glu Pro
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 gggaccttg aaacagttgg cactgtaagg tgcttgctcc ccaagacaca tcctaaaagg 3060
 tgttgtaatg gtgaaaacgt cttccttctt tattgccct tcttatttat gtgaacaact 3120
 gtttgcctt ttttgtatct tttttaaact gtaaagtcca attgtgaaaa tgaatatcat 3180
 gcaataaat tatgcgattt ttttttcaaa gtaaaaaaaa aaaaaaaa 3240
 gccgc 3245

<210> 930

<211> 1479

<212> DNA

<213> Homo sapiens

<400> 930

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atggctttga actcagggtc accaccagct attggacctt actatgaaaa ccatggatac 60
caaccggaaa acccctatcc cgcacagccc actgtggtcc ccactgtcta cgaggtgcat 120
ccggctcagt actaccgcgc ccccggtgcc cagtacgccc cgagggtcct gacgcaggct 180
tccaaccccg tcgtctgcac gcagcccaaa tccccatccg ggacagtgtg cacctcaaaag 240
actaagaaaag cactgtgcat caccttgacc ctggggacct tcctcgtggg agctgcgctg 300
gccgctggcc tactctggaa gttcatgggc agcaagtgtc ccaactctgg gatagagtgc 360
gactcctcag gtacctgcat caacccctct aactggtgtg atggcgtgtc aactgcccc 420
ggcggggagg acgagaatcg gtgtgttcgc ctctacggat caaacttcat ccttcagggtg 480
tactcatctc agaggaagtc ctggcacccct gtgtgccaag acgactggaa cgagaactac 540
gggcggggcgg cctgcaggga catgggctat aagaataatt ttactctag ccaaggaata 600
gtggatgaca gcgatccac cagctttatg aaactgaaca caagtgccgg caatgtcgat 660
atctataaaa aactgtacca cagtgtgccc tgttcttcaa aagcagtggg ttctttacgc 720
tgtatagcct gcggggtcaa cttgaactca agccgccaga gcaggattgt gggcggcgag 780
agcgcgctcc cgggggcctg gccctggcag gtcagcctgc acgtccagaa cgtccacgtg 840
tgcgagggtc ccatcatcac ccccgagtgg atcgtgacag ccgcccactg cgtggaaaaa 900
tctcttaaca atccatggca ttggacggca tttgcgggga ttttgagaca atctttcatg 960
ccttatggag ccgataacca agtagaaaaa gtgattttct atccaaatta tgactccaag 1020
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gtgaaaccag tgtgtctgcc caaccaggc atgatgctgc agccagaaca gctctgctgg 1140
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tggggttctg gctgtgccaa agcttacaga ccaggagtgt acgggaatgt gatggtattc 1440
acggactgga tttatcgaca aatgagggca gacggctaa 1479

```

<210> 931

<211> 1476

<212> DNA

<213> Homo sapiens

<400> 931

```

atggctttga actcagggtc accaccagct attggacctt actatgaaaa ccatggatac 60
caaccggaaa acccctatcc cgcacagccc actgtggtcc ccactgtcta cgaggtgcat 120
ccggctcagt actaccgcgc ccccggtgcc cagtacgccc cgagggtcct gacgcaggct 180
tccaaccccg tcgtctgcac gcagcccaaa tccccatccg ggacagtgtg cacctcaaaag 240
actaagaaaag cactgtgcat caccttgacc ctggggacct tcctcgtggg agctgcgctg 300
gccgctggcc tactctggaa gttcatgggc agcaagtgtc ccaactctgg gatagagtgc 360
gactcctcag gtacctgcat caacccctct aactggtgtg atggcgtgtc aactgcccc 420
ggcggggagg acgagaatcg gtgtgttcgc ctctacggat caaacttcat ccttcagggtg 480
tactcatctc agaggaagtc ctggcacccct gtgtgccaag acgactggaa cgagaactac 540
gggcggggcgg cctgcaggga catgggctat aagaataatt ttactctag ccaaggaata 600
gtggatgaca gcgatccac cagctttatg aaactgaaca caagtgccgg caatgtcgat 660
atctataaaa aactgtacca cagtgtgccc tgttcttcaa aagcagtggg ttctttacgc 720
tgtatagcct gcggggtcaa cttgaactca agccgccaga gcaggattgt gggcggcgag 780
agcgcgctcc cgggggcctg gccctggcag gtcagcctgc acgtccagaa cgtccacgtg 840
tgcgagggtc ccatcatcac ccccgagtgg atcgtgacag ccgcccactg cgtggaaaaa 900
tctcttaaca atccatggca ttggacggca tttgcgggga ttttgagaca atctttcatg 960
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gtgaaaccag tgtgtctgcc caaccaggc atgatgctgc agccagaaca gctctgctgg 1140
atttcggggt gggggggccac cgaggagaaa gggaagacct cagaagtgtc gaacgctgcc 1200
aaggtgcttc tcattgagac acagagatgc aacagcagat atgtctatga caacctgatc 1260

```

```

acaccagcca tgatctgtgc cggcttctctg caggggaacg tcgattcttg ccagggtgac 1320
agtggagggc ctctggtcac ttcgaagaac aatatctggg ggctgatagg ggataacaagc 1380
tggggttctg gctgtgccaa agcttacaga ccaggagtgt acgggaatgt gatggtattc 1440
acggactgga tttatcgaca aatgagggca gacggc 1476

```

<210> 932

<211> 492

<212> PRT

<213> Homo sapiens

<400> 932

```

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
      5      10      15
Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
      20      25      30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
      35      40      45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
      50      55      60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
      65      70      75      80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
      85      90      95
Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
      100      105      110
Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
      115      120      125
Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
      130      135      140
Glu Asn Arg Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val
      145      150      155      160
Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
      165      170      175
Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
      180      185      190
Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
      195      200      205
Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
      210      215      220
Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
      225      230      235      240
Cys Ile Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
      245      250      255
Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
      260      265      270
Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
      275      280      285
Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn
      290      295      300
Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
      305      310      315      320
Phe Tyr Gly Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn
      325      330      335

```

```

Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
      340      345      350
Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
      355      360      365
Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
      370      375      380
Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
385      390      395      400
Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
      405      410      415
Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
      420      425      430
Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
      435      440      445
Lys Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
      450      455      460
Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
465      470      475      480
Thr Asp Trp Ile Tyr Arg Gln Met Arg Ala Asp Gly
      485      490

```

<210> 933

<211> 100

<212> PRT

<213> Homo sapiens

<400> 933

```

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
      5      10      15
Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
      20      25      30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
      35      40      45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
      50      55      60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
      65      70      75      80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
      85      90      95
Gly Ala Ala Leu
      100

```

<210> 934

<211> 393

<212> PRT

<213> Homo sapiens

<400> 934

```

Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys Cys Ser Asn
      5      10      15
Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn Pro Ser Asn
      20      25      30

```

Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp Glu Asn Arg
 35 40 45
 Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val Tyr Ser Ser
 50 55 60
 Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp Asn Glu Asn
 65 70 75 80
 Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn Asn Phe Tyr
 85 90 95
 Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser Phe Met Lys
 100 105 110
 Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys Leu Tyr His
 115 120 125
 Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg Cys Ile Ala
 130 135 140
 Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile Val Gly Gly
 145 150 155 160
 Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser Leu His Val
 165 170 175
 Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro Glu Trp Ile
 180 185 190
 Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn Pro Trp His
 195 200 205
 Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met Phe Tyr Gly
 210 215 220
 Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn Tyr Asp Ser
 225 230 235 240
 Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln Lys Pro Leu
 245 250 255
 Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn Pro Gly Met
 260 265 270
 Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp Gly Ala Thr
 275 280 285
 Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala Lys Val Leu
 290 295 300
 Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr Asp Asn Leu
 305 310 315 320
 Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly Asn Val Asp
 325 330 335
 Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser Lys Asn Asn
 340 345 350
 Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly Cys Ala Lys
 355 360 365
 Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe Thr Asp Trp
 370 375 380
 Ile Tyr Arg Gln Met Arg Ala Asp Gly
 385 390

<210> 935

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 935
gtgctgtggg agtccccgcg gc

22

<210> 936
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 936
cgtgaactcg agtcattaga ttaacctcgt ggacgc

36

<210> 937
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 937
gtgctgtggg agtccccgcg gc

22

<210> 938
<211> 1158
<212> DNA
<213> Homo sapiens

<400> 938
catatgcagc atcaccacca tcaccacgtg ctgtgggagt ccccgoggca gtgcagcagc 60
tggaacttt gcgagggtt ttgctggctg ctgctgctgc ccgtcatgct actcatcgta 120
gcccggccgg tgaagctcgc tgctttccct acctccttaa gtgactgcca aacgcccacc 180
ggctggaatt gctctgggta tgatgacaga gaaaatgatc tcttccctctg tgacaccaac 240
acctgtaaat ttgatgggga atgtttaaga attggagaca ctgtgacttg cgtctgtcag 300
ttcaagtgca acaatgacta tgtgcctgtg tgtggctcca atggggagag ctaccagaat 360
gagtgttacc tgcgacaggc tgcattgcaa cagcagagtg agatacttgt ggtgtcagaa 420
ggatcatgtg ccacagatgc aggatcagga tctggagatg gattccatga aggctctgga 480
gaaactagtc aaaaggagac atccacctgt gatatttgcc agtttggtgc agaattgtgac 540
gaagatgccg aggatgtctg gtgtgtgtgt aatattgact gttctcaaac caacttcaat 600
cccctctgcg cttctgatgg gaaatcttat gataatgcat gccaaatcaa agaagcatcg 660
tgtcagaaac aggagaaaaa tgaagtcattg tctttgggtc gatgtcaaga taacacaact 720
acaactacta agtctgaaga tgggcattat gcaagaacag attatgcaga gaatgctaac 780
aaattagaag aaagtgccag agaaccaccac atacctgtgc cggaacatta caatggcttc 840
tgcatgcatg ggaagtgtga gcattctatc aatatgcagg agccatcttg cagggtgtgat 900
gctgggtata ctggacaaca ctgtgaaaaa aaggactaca gtgttctata cgttgttccc 960
ggtcctgtac gatttcagta tgtcttaatc gcagctgtga ttggaacaat tcagattgct 1020
gtcatctgtg tgggtggtcct ctgcatcaca aggaaatgcc ccagaagcaa cagaattcac 1080
agacagaagc aaaatacagg gcactacagt tcagacaata caacaagagc gtccacgagg 1140

ttaatctaata gactcgag

1158

<210> 939

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 939

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atgcagcatc accaccatca ccacgactgc caaacgccca cgggctggaa ttgctctggt 60
tatgatgaca gagaaaatga tctcttcctc tgtgacacca acacctgtaa atttgatggg 120
gaatgtttaa gaattggaga cactgtgact tgcgtctgtc agttcaagtg caacaatgac 180
tatgtgcctg tgtgtggctc caatggggag agctaccaga atgagtgtta cctgcgacag 240
gctgcatgca aacagcagag tgagatactt gtgggtgtcag aaggatcatg tgccacagat 300
gcaggatcag gatctggaga tggagtccat gaaggctctg gagaaactag tcaaaaggag 360
acatccacct gtgatatttg ccagtttggg gcagaatgtg acgaagatgc cgaggatgtc 420
tgggtgtgtg gtaatatattga ctgttctcaa accaacttca atccccctctg cgcttctgat 480
gggaaatctt atgataatgc atgccaaatc aaagaagcat cgtgtcagaa acaggagaaa 540
attgaagtca tgtctttggg tcgatgtcaa gataacacaa ctacaactac taagtctgaa 600
gatgggcatt atgcaagaac agattatgca gagaatgcta acaaattaga agaaagtgcc 660
agagaacacc acataccttg tccggaacat tacaatggct tctgcatgca tgggaagtgt 720
gagcattcta tcaatatgca ggagccatct tgcagggtgtg atgctgggta tactggacaa 780
cactgtgaaa aaaaggacta cagtgttcta tacgttggtc cgggtcctgt acgatttcag 840
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ctctgcatca caaggaaatg cccagaagc aacagaattc acagacagaa gcaaaataca 960
gggcactaca gttcagacaa tacaacaaga gcgtccaoga ggtaatatca atgactcgag 1020

```

<210> 940

<211> 336

<212> PRT

<213> Homo sapiens

<400> 940

```

Met Gln His His His His His Asp Cys Gln Thr Pro Thr Gly Trp
                    5              10              15
Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp
                20              25              30
Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr
                35              40              45
Val Thr Cys Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val
                50              55              60
Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln
                65              70              75              80
Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser
                85              90              95
Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly
                100             105             110
Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln
                115             120             125
Phe Gly Ala Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys
                130             135             140
Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp
                145             150             155             160
Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln
                165             170             175

```



```
<210> 941
<211> 381
<212> PRT
<213> Homo sapiens
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Met	Gln	His	His	His	His	His	His	Val	Leu	Trp	Glu	Ser	Pro	Arg	Gln
				5					10					15	
Cys	Ser	Ser	Trp	Thr	Leu	Cys	Glu	Gly	Phe	Cys	Trp	Leu	Leu	Leu	Leu
			20					25					30		
Pro	Val	Met	Leu	Leu	Ile	Val	Ala	Arg	Pro	Val	Lys	Leu	Ala	Ala	Phe
		35					40					45			
Pro	Thr	Ser	Leu	Ser	Asp	Cys	Gln	Thr	Pro	Thr	Gly	Trp	Asn	Cys	Ser
	50					55					60				
Gly	Tyr	Asp	Asp	Arg	Glu	Asn	Asp	Leu	Phe	Leu	Cys	Asp	Thr	Asn	Thr
65					70					75					80
Cys	Lys	Phe	Asp	Gly	Glu	Cys	Leu	Arg	Ile	Gly	Asp	Thr	Val	Thr	Cys
				85					90					95	
Val	Cys	Gln	Phe	Lys	Cys	Asn	Asn	Asp	Tyr	Val	Pro	Val	Cys	Gly	Ser
			100					105					110		
Asn	Gly	Glu	Ser	Tyr	Gln	Asn	Glu	Cys	Tyr	Leu	Arg	Gln	Ala	Ala	Cys
		115					120					125			
Lys	Gln	Gln	Ser	Glu	Ile	Leu	Val	Val	Ser	Glu	Gly	Ser	Cys	Ala	Thr
	130					135					140				
Asp	Ala	Gly	Ser	Gly	Ser	Gly	Asp	Gly	Val	His	Glu	Gly	Ser	Gly	Glu
145					150				155						160
Thr	Ser	Gln	Lys	Glu	Thr	Ser	Thr	Cys	Asp	Ile	Cys	Gln	Phe	Gly	Ala
				165					170					175	
Glu	Cys	Asp	Glu	Asp	Ala	Glu	Asp	Val	Trp	Cys	Val	Cys	Asn	Ile	Asp
			180					185					190		
Cys	Ser	Gln	Thr	Asn	Phe	Asn	Pro	Leu	Cys	Ala	Ser	Asp	Gly	Lys	Ser
		195					200					205			

```
<210> 942
<211> 45
<212> DNA
<213> Homo sapiens
```

45

```
<210> 943
<211> 15
<212> PRT
<213> Homo sapiens
```

```
<400> 943
Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val Asn
          5              10              15
```